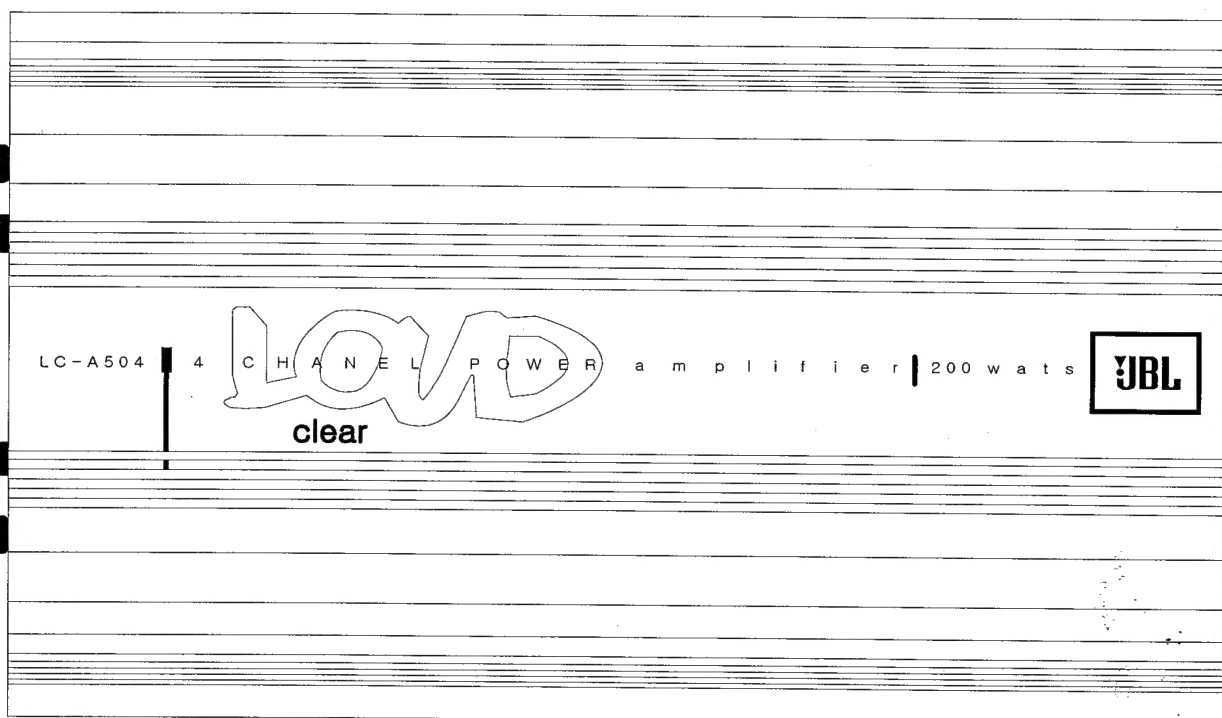


LC-A504



4 CHANNEL AUTOMOTIVE POWER AMPLIFIER

TECHNICAL MANUAL



JBL CONSUMER PRODUCTS
250 CROSSWAYS PARK DRIVE, WOODBURY, NY 11797
8500 BALBOA BOULEVARD, NORTHRIDGE, VA91329
WWW.JBL.COM

Controls and Connections

| | | | |
|---|---|----------------------------------|-------|
| Specifications | 1 | Parts Lists..... | 6~8 |
| Features | 2 | Block Diagrams..... | 9 |
| Test Conditions and Notes | 2 | Packaging Exploded View..... | 10 |
| Controls and Connections | 3 | Integrated Circuit Diagrams..... | 11 |
| Mounting the amplifier..... | 3 | Transistor Diagrams..... | 12 |
| Typical System Configuration (Wiring) | 4 | Schematic Diagrams..... | 13~15 |
| Printed Circuit Boards (Top View)..... | 5 | Amplifier Exploded View..... | 16 |

SPECIFICATIONS

| | |
|--|----------------------------------|
| Number of Channels | 1, 2, 3, 4 |
| 4 Ohms Stereo | 50W x 4 |
| 2 Ohms Stereo | 62.5W x 4 |
| 4 Ohms Bridged | 125W x 2 |
| T.H.D. @ 4 Ohms rated Power | 0.1% |
| Frequency Response | 20Hz ~ 40KHz (+1, -2dB) |
| Signal to noise Ratio | > 90 dB |
| Slew Rate | > 13 / us |
| Channel Separation | > 60 dB |
| Damping Factor | > 100 |
| Crossover Slope | 12 dB / oct |
| Fuse Size | 20 AMP ATC Type (2Per Amplifier |
| Line Level Sensitivity | 250mV - 4V |
| DC Operating Range. | 6V - 18V |
| Maximum Current Draw(4ohm BRG) | 47A |
| External Dimensions (Inches) | |
| Length | 2-5/16" |
| Width | 8-5/16" |
| Depth | 14-1/16" |
| External Dimensions (mms) | |
| Length | 58mm |
| Width | 217mm |
| Depth | 357mm |

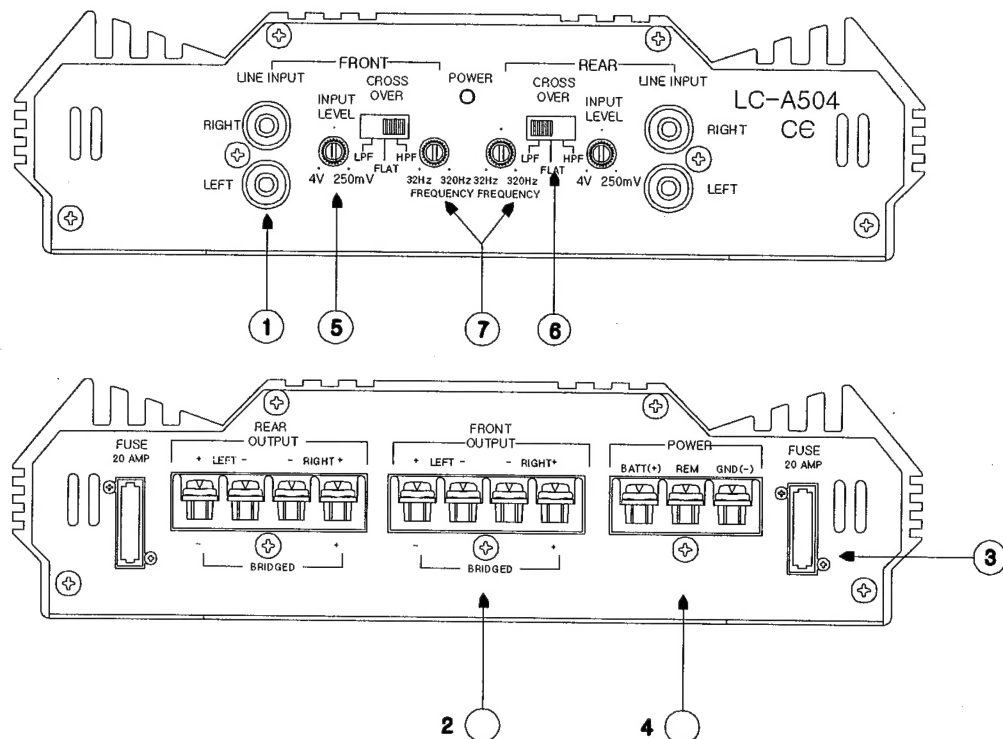
JBL continually strives to improve its products. New materials, production methods and design refinements are introduced into existing models without notice as a routine expression of our design philosophy. For this reason, Loud and Clear® Series Multichannel Automotive Amplifiers may differ in some respects from their published specifications and descriptions, but will always equal or exceed the original specifications unless otherwise stated.

Features

- 4-Channel Operation
- Built-in optional 12dB/oct Variable Crossover
- Advanced MOSFET Oversized Floating Rail Power Supply
- Floating Ground Factory – Head – Unit Speaker – Level input
- Variable Input Sensitivity (250mV – 4V)
- Fully Complementary Output Stage with Class-A Voltage Amplification
- Gold-plated Power, Input and Output Connectors
- 2-Ohm Stable (Stereo)

Test Conditions and Notes

- All tests to be done, unless otherwise specified, from 20KHz to 40KHz at 14.4V DC into 4 ohm loads and adjust the units gain so that with a .775 volt input signal the unit is at its maximum rated output. All measurements will be done using an Audio precision system one and the supply voltage.
- An A+ line voltage of 14.4V DC shall be applied to the unit under test for all measurements unless otherwise specified. The voltage applied to the unit shall be measured at the power connection on the Amplifier.
- Signal Source
Unless otherwise specified, all tests shall be conducted with the Audio Signal Generator output configured to be balanced, less than or equal to 50 ohm source impedance, and floating. The signal source "GND" shall be connected to the Amplifier PWR GND at the Amplifier.
- Output Load
Unless otherwise specified, all tests shall be conducted with 4 ohm resistive loads having less than 10% reactive components at any frequency below 75KHz. Each resistor shall have a value that remains within 1% while dissipating the rated output of the unit under test.
- Power Indicator LED steadily illuminates for normal operation. LED blinks when protection circuitry is engaged, and during power up.



Controls and Connections

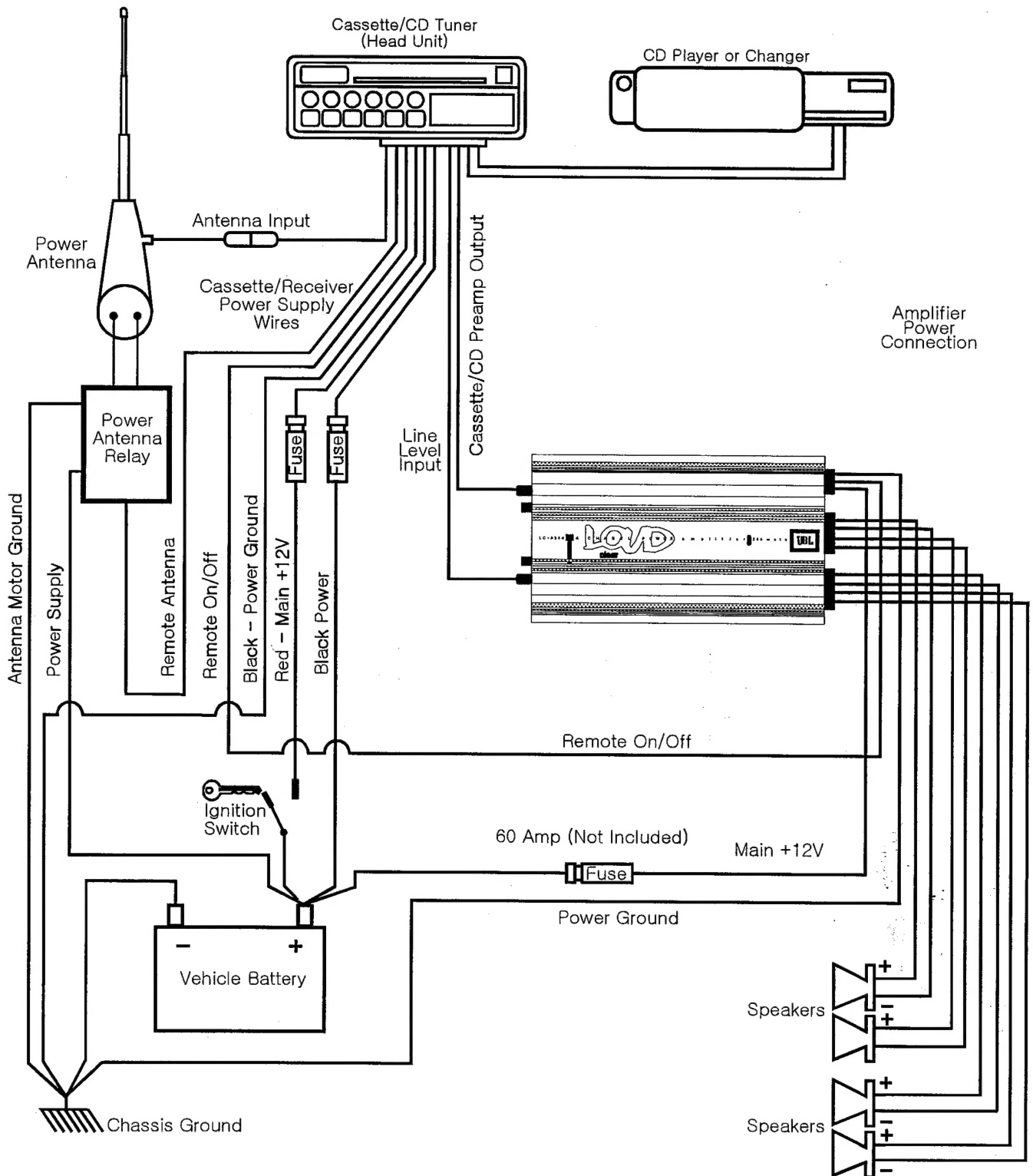
1. Preamp-Level Input Connector – Connects to line-level output from the source unit. If your radio has only speaker-level outputs, you must use a speaker-to-line-level adapter.
2. Speaker Output Connector – Connect speaker wiring to these connectors. See wiring instructions on page 4 for more information.
3. Fuse – Two 20 Amp ATC type Fuses.
4. Power Connection for 12V+, GND and REM connections for power wires. See wiring instructions on page 4 for more information.
5. Input-Level Control – Adjusts input sensitivity for pre-amp level and speaker level inputs.
6. Crossover Switch – When this switch is in the FLAT position the amplifier operates at full range frequencies; When in the LPF position, the amplifier operates in the Bass frequencies; when the switch is in the HPF position, the amplifier operates in the Upper frequencies.
7. Frequency adjustment – When the LPF/FLAT/HPF switch is either in the LPF or HPF position, this adjusts where the frequency response of the amplifier rolls off on the upper or lower end of the range, depending on switch position.

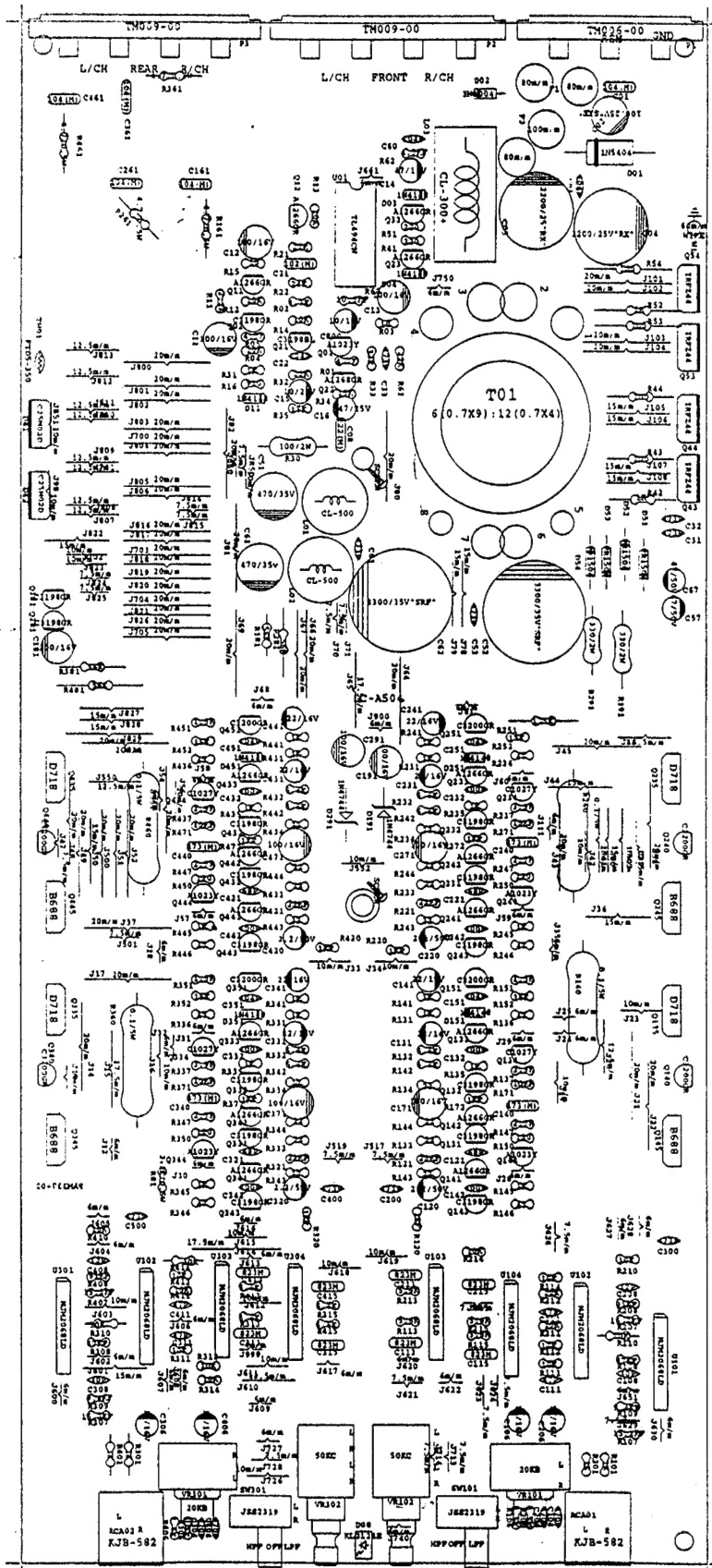
Mounting the Amplifier

The JBL Loud + Clear Series amplifiers can be mounted in virtually any location inside the vehicle. However, make sure to keep the amplifier away from heater vents or ducts.

1. At the chosen site, use the amplifier as a mounting template and mark the locations of the four mounting holes.
2. Drill a small pilot hole at each marked location.
3. Mount the amplifier and securely tighten the mounting screws.

Typical System Configuration





LC-A 504 Parts List

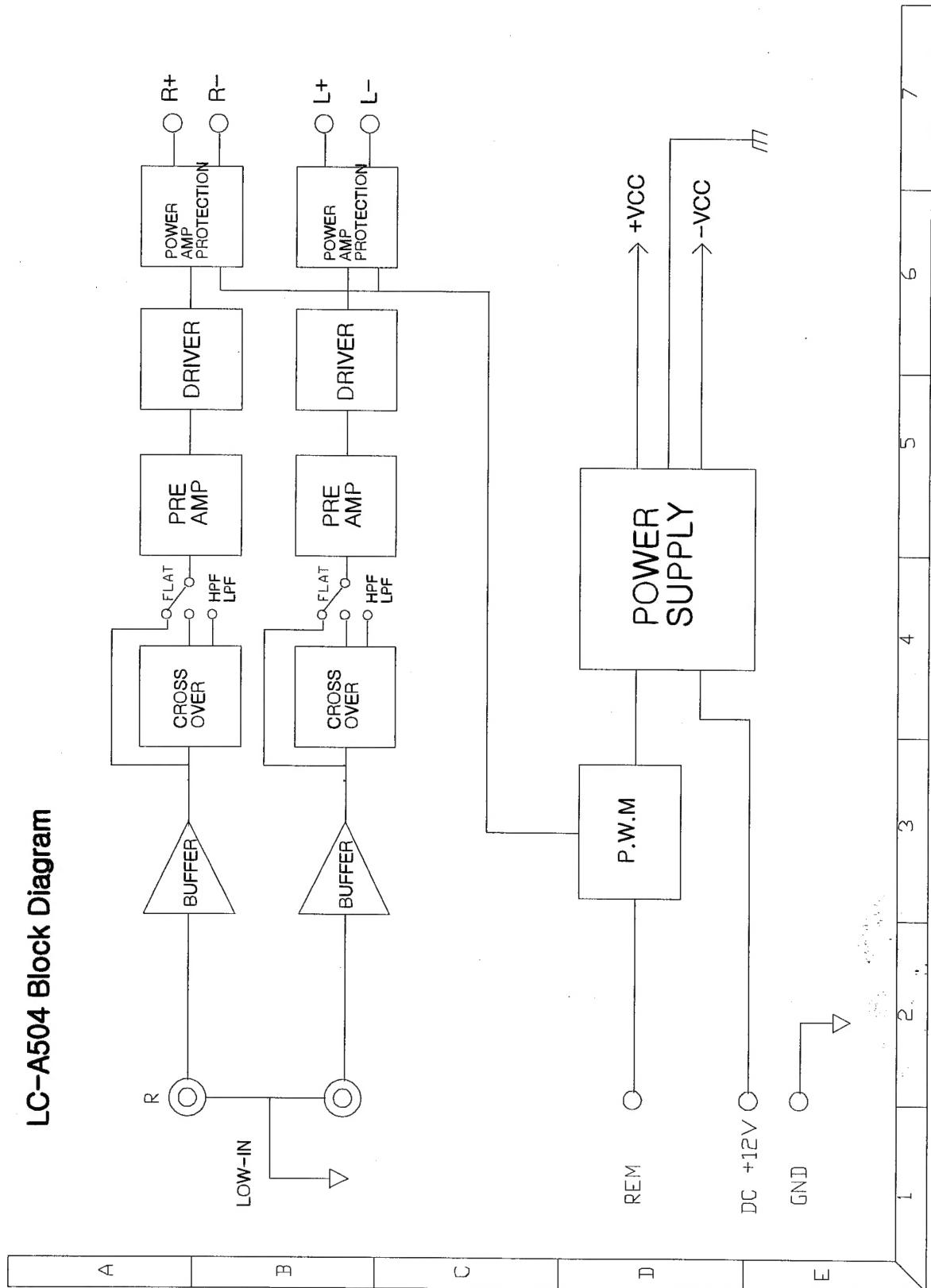
| REF. NO | PART NO. | DESCRIPTION | Q'TY | REF. NO | PART NO. | DESCRIPTION | Q'TY |
|--|-------------|-------------------------------------|------|---|-------------|--------------------------------------|------|
| Main PCB, Preamp, Crossover, Power Supply and Power Amplifier | | | | R03,15 | RE202010002 | CARBON FILM 1/5W 5% (10 OHM) | 2 |
| F.E.T | | | | R11 | RE20202202 | CARBON FILM 1/5W 5% (2.2K OHM) | 1 |
| Q43,44,53 Q54 | FE100440112 | N-CH MOSFET (IRFZ44) | 4 | R4,12,13 R14,110,111 R112,114,210 R211,212,214 R310,311,312 R314,410,411 R412,414 | RE202010302 | CARBON FILM 1/5W 5% (10K OHM) | 20 |
| TRANSISTORS | | | | R16 | RE202910002 | CARBON FILM 1/5W 5% (910 OHM) | 1 |
| Q01,144,244 Q344,444 | TR010233100 | SMALL SIGNAL PNP (A1023Y) | 5 | R21 | RE202027302 | CARBON FILM 1/5W 5% (27K OHM) | 1 |
| Q02,131,132 Q143,181,231 Q232,243,281 Q331,332,343 Q431,432,443 | TR031981100 | SMALL SIGNAL NPN (C3198GR) | 15 | R22 | RE202024302 | CARBON FILM 1/5W 5% (24K OHM) | 1 |
| Q11,12,23 Q33,133,141 Q142,233,241 Q242,333,341 Q342,433,441 Q442 | TR012661200 | SMALL SIGNAL PNP (A1266GR) | 16 | R30 | RE306100000 | METAL FILM 2W 5% (100 OHM) | 1 |
| Q21 | TR031984100 | SMALL SIGNAL NPN (C3198BL) | 1 | R31,42,52 R101,131,135 R141,145,201 R231,235,241 R245,301,331 R335,341,345 R401,431,435 R441,445 | RE202001302 | CARBON FILM 1/5W 5% (1K OHM) | 23 |
| Q22 | TR012681200 | SMALL SIGNAL PNP (A1268GR) | 1 | R32,61 | RE202022302 | CARBON FILM 1/5W 5% (22K OHM) | 2 |
| Q134,234,334 Q434 | TR010273100 | SMALL SIGNAL NPN (C1027Y) | 4 | R33 | RE202033302 | CARBON FILM 1/5W 5% (33K OHM) | 1 |
| Q135,235,335 Q435 | TR107182114 | AUDIO POWER NPN (D718) | 4 | R34,35,152 R252,352,452 | RE202015302 | CARBON FILM 1/5W 5% (15K OHM) | 6 |
| Q140,240,340 Q440 | TR032001100 | SMALL SIGNAL NPN (C3200GR) | 4 | R41,51 | RE202220002 | CARBON FILM 1/5W 5% (220 OHM) | 2 |
| Q145,245,345 Q445 | TR106882214 | AUDIO POWER NPN (B688) | 4 | R43,44,53 R54 | RE202100002 | CARBON FILM 1/5W 5% (100 OHM) | 4 |
| Q151,251,351 Q451 | TR032001100 | SMALL SIGNAL NPN (C3200GR) | 4 | R60 | RE21205202 | CARBON FILM 1/5W 1% (10.5K OHM) | 1 |
| DIODES | | | | R62 | RE212047202 | CARBON FILM 1/5W 1% (4.7K OHM) | 1 |
| D01 | DI054040011 | RECTIFIER (1N5404) | 1 | R81 | RE204022202 | CARBON FILM 0.5W 5% (2.2K OHM) | 1 |
| D02 | DI040040010 | RECTIFIER (1N4004) | 1 | R106,151,206 R251,306,351 R406,451 | RE202015202 | CARBON FILM 1/5W 5% (1.5K OHM) | 8 |
| D03,04,11 D151,251,351 D451 | DI041480000 | SWITCHING SIGNAL (1N4148) | 7 | R107,207,307 R407 | RE212152202 | CARBON FILM 1/5W 1% (15.2K OHM) | 4 |
| D08 | DI000124471 | GREEN (KLG124E) | 1 | R108,308 | RE212047302 | CARBON FILM 1/5W 1% (47K OHM) | 2 |
| D41,42 | DI002502031 | FAST RECOVERY (ESC25M02D) | 2 | R109,309 | RE212094202 | CARBON FILM 1/5W 1% (9.4K OHM) | 2 |
| D51,52,53 D54 | DI001504111 | FAST RECOVERY (PR1504) | 4 | R113,115,132 R142,213,215 R232,242,313 R315,332,342 R413,415,432 R442 | RE202056202 | CARBON FILM 1/5W 5% (5.6K OHM) | 16 |
| D191,291 | DI047440040 | ZENER DIODE 1W (1N4744) | 2 | R120,172,220 R272,320,372 R420,472 | RE212001302 | CARBON FILM 1/5W 1% (1K OHM) | 8 |
| I.C | | | | R121,221,321 R421 | RE212022302 | CARBON FILM 1/5W 1% (22K OHM) | 4 |
| U01 | IC017049400 | P.W.M (TL494CN) | 1 | R133,134,143 R144,233,234 R243,244,333 R334,343,344 R433,434,443 R444 | RE202022002 | CARBON FILM 1/5W 5% (22 OHM) | 16 |
| U101,102,103 U104,301,302 U303,304 | IC007206802 | DUAL OP AMP (NJM2068LD) | 8 | | | | |
| RESISTORS | | | | | | | |
| R01,02,05 | RE202047202 | CARBON FILM 1/5W 5% (4.7K OHM) | 3 | | | | |

| REF. NO | PART NO. | DESCRIPTION | Q'TY | REF. NO | PART NO. | DESCRIPTION | Q'TY |
|---|-------------|--------------------------------------|------|---|--------------|--------------------------------------|------|
| R136,146,236 R246,336,346 R436,446 | RE202047002 | CARBON FILM 1/5W 5% (47 OHM) | 8 | C108,308 | CC011300100 | CERAMIC DISK 50V "NPO" (30pF 0) | 2 |
| R137,237,337 R437 | RE202039202 | CARBON FILM 1/5W 5% (3.9K OHM) | 4 | C111,211,311 C411 | CC011470100 | CERAMIC DISK 50V "NPO" (47pF) | 4 |
| R147,247,347 R447 | RE202027202 | CARBON FILM 1/5W 5% (2.7K OHM) | 4 | C121,221,321 C421 | CC011680100 | CERAMIC DISK 50V "NPO" (68pF) | 4 |
| R150,250,350 R450 | RE202120002 | CARBON FILM 1/5W 5% (120 OHM) | 4 | C132,142,232 C242,332,342 C432,,442 | CC011101100 | CERAMIC DISK 50V "NPO" (12pF) | 2 |
| R160,260,360 R460 | RE507001801 | WIRE WOUND 5W 5% (0.1 OHM) | 4 | C208,408 | CC011120100 | CERAMIC DISK 50V "NPO" (100pF) | 8 |
| R161,261,361 R461 | RE204047802 | CARBON FILM 0.5W 5% (4.7 OHM) | 4 | MISCELLANEOUS | | | |
| R171,271,371 R471 | RE212010302 | CARBON FILM 1/5W 1% (10K OHM) | 4 | TH01 | TH100500010 | NTC RESISTOR (FTD5-350) | 1 |
| R181,281,381 R481 | RE202056302 | CARBON FILM 1/5W 5% (56K OHM) | 4 | T01 | TF137061201 | TROIDAL CORE | 1 |
| R191,291 | RE306033000 | METAL FILM 2W 5% (330 OHM) | 2 | L01,02 | AR312152750 | DC CHOKE DRUM COIL (CL-500) | 2 |
| R208,408 | RE212091302 | CARBON FILM 1/5W 1% (91K OHM) | 2 | L03 | AR201250130 | DC CHOKE BAR COIL (CL-300+) | 1 |
| CAPACITORS | | | | VR101,301 | VO112203612 | POTENTIOMETER (20K DUAL GANG) | 2 |
| C02 | EC050171010 | ELECTROLYTIC "SXE" (100uF/25V) | 1 | VR102,302 | VO114503003 | POTENTIOMETER (50K DUAL GANG) | 2 |
| C04,05 | EC050131221 | ELECTROLYTIC "RX" (2200uF/25V) | 2 | SW101,301 | SW023223190 | SLIDE SWITCH (JSS-2319) | 2 |
| C11,12,13 C171,181,191 C271,291,371 C471 | EC040111010 | ELECTROLYTIC "SMS" (100uF/16V) | 10 | RCA01,02 | JA020582001 | RCA JACK(KJB-582) | 2 |
| C14 | EC040114700 | ELECTROLYTIC "SMS" (47uF/16V) | 1 | P01 | TE000060000 | POWER TERMINAL (TM 006-00) | 1 |
| C15 | EC050111000 | ELECTROLYTIC "SMS" (10uF/25V) | 1 | P02,03 | TE000090000 | SPEAKER TERMINAL (TM 009-00) | 2 |
| C16 | EC050114700 | ELECTROLYTIC "SMS" (47uF/25V) | 1 | FH1 | FH015543000 | FUSE HOLDER (155430U) | 2 |
| C51,61 | EC060114710 | ELECTROLYTIC "SMS" (470uF/35V) | 2 | W01 | WI022000600 | GND WIRE AWG#22 BK 60m/m | 1 |
| C52,62 | EC060053321 | ELECTROLYTIC "SRF" (3300uF/35V) | 2 | | WI014020800 | GND WIRE AWG#22 RED 100m/m | 2 |
| C57,67 | EC070114700 | ELECTROLYTIC "SMS" (47uF/50V) | 2 | LED | WI014021500 | GND WIRE AWG#14 RED 150m/m | 2 |
| C106,206,306 C406,800 | EC040111000 | ELECTROLYTIC "SMS" (10uF/16V) | 5 | TR | TB0001000100 | TEFLON TUBE 0.7 PHI (6m/m) | 4 |
| C120,220,320 C420 | EC070112260 | ELECTROLYTIC "SMS" (2.2uF/50V) | 4 | TH | TB0001200100 | TEFLON TUBE 0.7 PHI (12m/m) | 2 |
| C131,141,231 C241,331,341 C431,441 | EC040112200 | ELECTROLYTIC "SMS" (22uF/16V) | 8 | FET,DIODE | mP010008000 | PAPER SPACER (10x8x0.5t) | 6 |
| | | | | POWER TR | mP015006000 | PAPER SPACER (15x7x0.5t) | 8 |
| | | | | 2EA ACC'Y | FU030120301 | FUSE 20A | 4 |
| C01,161,261 C361,461 | MC001110400 | MYLAR ±5% 50V (.1μf) | 5 | | | | |
| C08 | MC001122200 | MYLAR ±5% 50V (.0022μf) | 1 | | | | |
| C21 | MC001110200 | MYLAR ±5% 50V (.001μf) | 1 | | | | |
| C113,115,213 C215,313,315 C413,415 | MC001182310 | MYLAR ±5% 50V (.082μf) | 8 | | | | |
| C140,240,340 C440 | MC001147300 | MYLAR ±5% 50V (.047μf) | 4 | | | | |

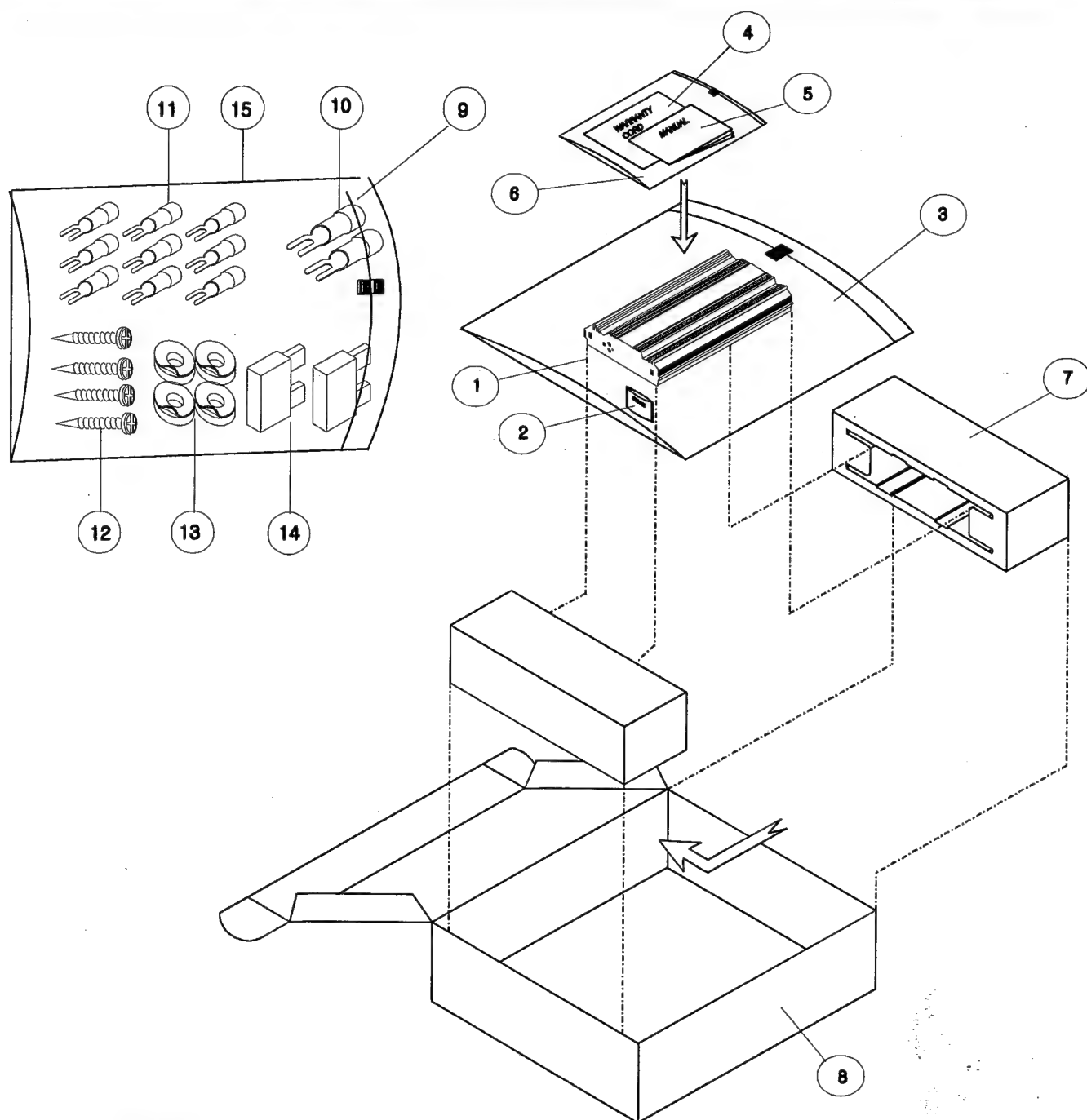
LC-A 504 Parts List

| REF. NO | PART NO. | DESCRIPTION | Q'TY |
|----------------------|-------------|----------------------------|------|
| MECHANICAL | | | |
| MAIN HEAT SINK | MAHS6527920 | AL BAR 330.0m/m | 1 |
| FRONT PANEL | MAFP6537731 | EGI 1.0t | 1 |
| REAR PANEL | MARP6537741 | EGI 1.0t | 1 |
| BOTTOM COVER | MABC6527890 | EGI 1.0t L=329.5m/m | 1 |
| TR BRACKET (A) | MABR0341240 | SBHG 200.0x22.5x2.0t | 2 |
| TR BRACKET (B) | MABR0341250 | SBHG 200.0x25.5x2.0t | 2 |
| TR-BKT/ CUSHION | MOCU0241270 | FIBER 200.0x20.0x1.5t | 2 |
| PAPER SPACER | MOCU0441491 | PAPER 6.0x320.0x0.3t | 2 |
| SILICON PAD | MASP0141260 | SP1000 200.0x22.0x0.3t | 2 |
| RUBBER CUSHION(A) | MOCU0141670 | RUBBER PHI12.0xPHI5.0x2.0t | 4 |
| RUBBER CUSHION(B) | MOCU0141330 | RUBBER 10.0x20.0x1.6t | 5 |
| RUBBER CUSHION(C) | MOCU0111140 | RUBBER PHI 18.0x10.0t | 1 |
| SWITCH DECAL | MOSD0340230 | FELT 15.0x7.0x0.3t | 2 |
| OPEN LUG (A) | MAOL0100010 | DPF2-4 (2.5SQ) | 9 |
| OPEN LUG (B) | MAOL0100020 | DPF5.5-4 (5.5SQ) | 2 |
| PCB SUPPORT | MASU0611040 | NYLON (NATURAL) | 2 |
| SCREW | MNSC0423005 | STT2 BH 3x5 NI | 1 |
| SCREW | MBSC0423006 | STT2 BH 3x6 BK | 8 |
| SCREW | MBSC0423008 | STT2 BH 3x8 BK | 5 |
| SCREW | MNSC0423016 | STT2 BH 3x16 NI | 1 |
| SCREW | MBSC0433006 | STT2 PH 3x6 BK | 6 |
| SCREW | MNSC0034016 | SMP 4x16 NI | 8 |
| SCREW | MBSC0524020 | STT1 BH 4x20 BK | 4 |
| POLY BAG (A) | MAPB0128001 | VIINYL 310.0x500.0x0.1t | 1 |
| POLY BAG (B) | MAPB0128200 | VINYL 225.0x320.0x0.07t | 1 |
| POLY BAG (C) | MAPB0141010 | VINYL 80.0x100.0x0.03t | 1 |
| SNOW BOX "L,R" | MASN0227951 | PS(40) NO:008 | 2 |
| GIFT BOX | MAGB0510741 | SW#1 418.0x268.0x104.0 | 1 |
| CARTON BOX | MACB0210781 | DW#2 446.0x433.0x288.0 | 1/4 |
| MANUAL | LC-AMPOM | | 1 |

LC-A504 Block Diagram



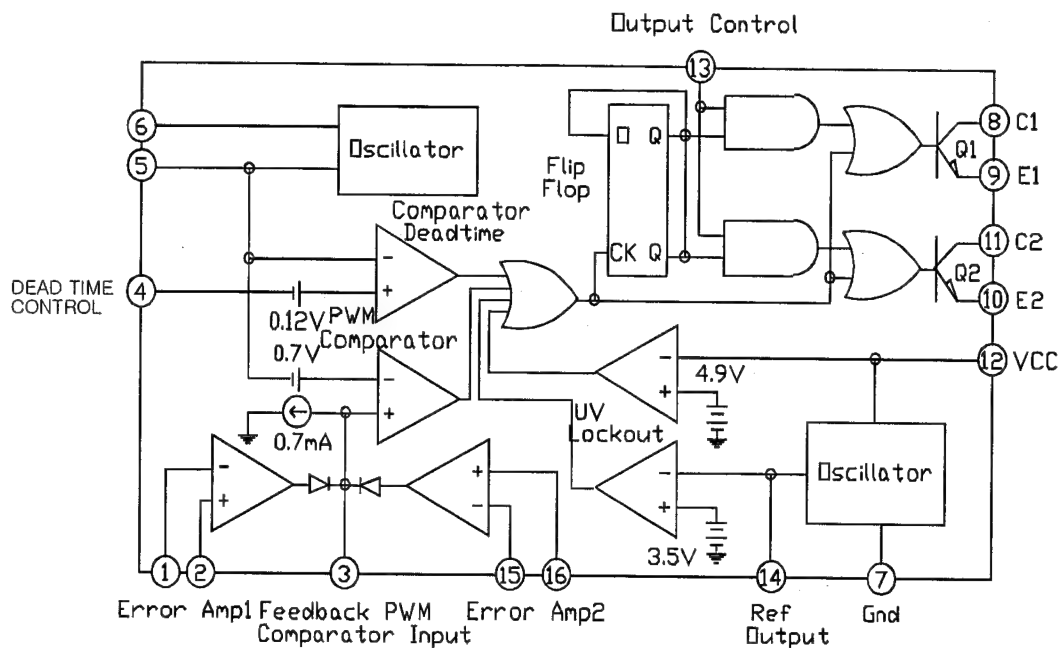
Packaging Exploded View



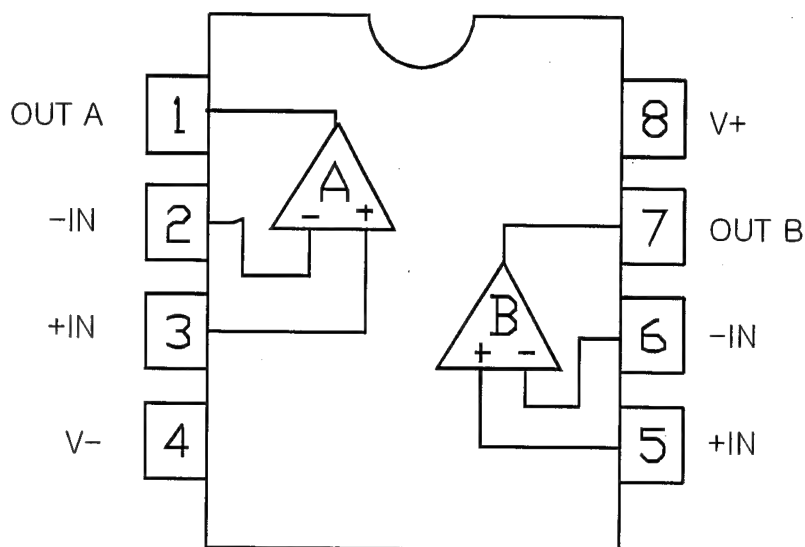
* PACKAGE *

| | | | | | | | |
|---|-------------|----------------|---|---|--------------|----------------|---|
| ① | LC-A504 | SET | 1 | ⑨ | MABP0141010 | POLY BAG | 1 |
| ② | MOSG0147100 | SILICAGEL | 1 | ⑩ | MAOL0100020 | OPEN LUG | 2 |
| ③ | MAPB0128001 | POLY BAG | 1 | ⑪ | MAOL0100010 | OPEN LUG | 9 |
| ④ | MOMT0147110 | WARRANTY CARD | 1 | ⑫ | MBSC0524020 | SCREW | 4 |
| ⑤ | LC-AMPOM | MANUAL | 1 | ⑬ | MOCU0141670 | RUBBER CUSHION | 4 |
| ⑥ | MAPB0128200 | POLY BAG | 2 | ⑭ | FU030120301 | FUSE | 2 |
| ⑦ | MASN0227951 | SNOW BOX "L,R" | 1 | ⑮ | ACCKTILCA504 | ACCESSORY KIT | 1 |
| ⑧ | MAGB0510741 | GIFT BOX | 1 | | | | |

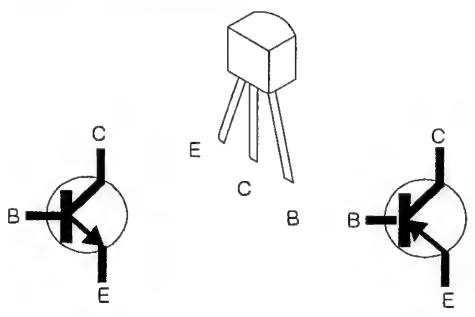
U01 (TL494CN) P.W.M IC



U101,102,103,104,301,302,303,304 (NJM-2068L) - DUAL OP AMP

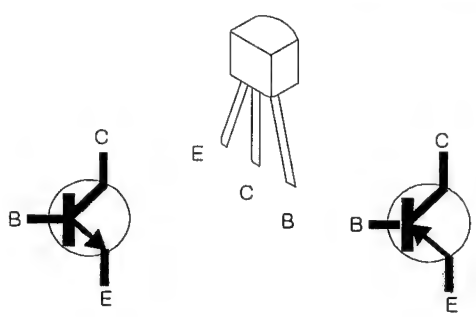


Transistor Diagrams



* KTC3198GR *
Q02,131,132,143,181
q231,232,243,281,331
q332,343,431,432,443

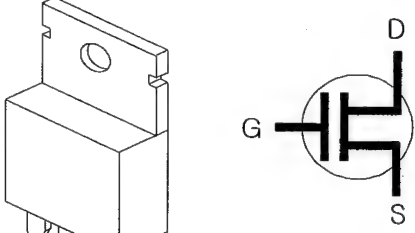
* KTA1266GR *
Q11,12,23,33,133,141
Q142,233,241,242,333,341
Q342,433,441,442



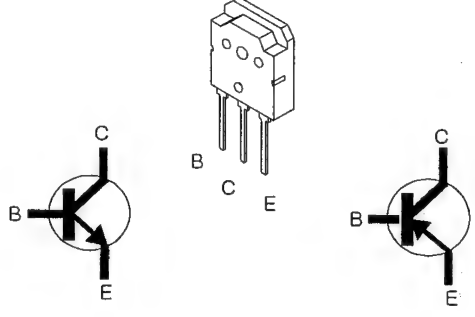
* KTC3200GR *
Q151,251,351,451

* KTA1268GR *
Q22

* KTC3198BL *
Q21

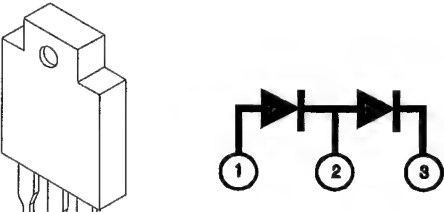


* IRFZ44
Q43,44,53,54

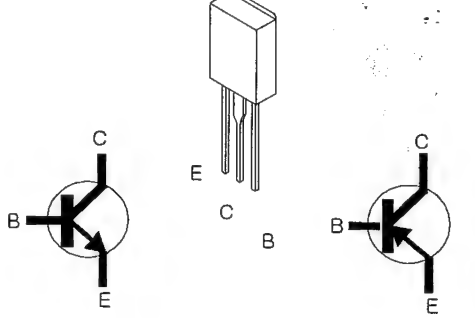


* KTD718 *
Q135,235,335,435

* KTB688 *
Q145,245,345,445

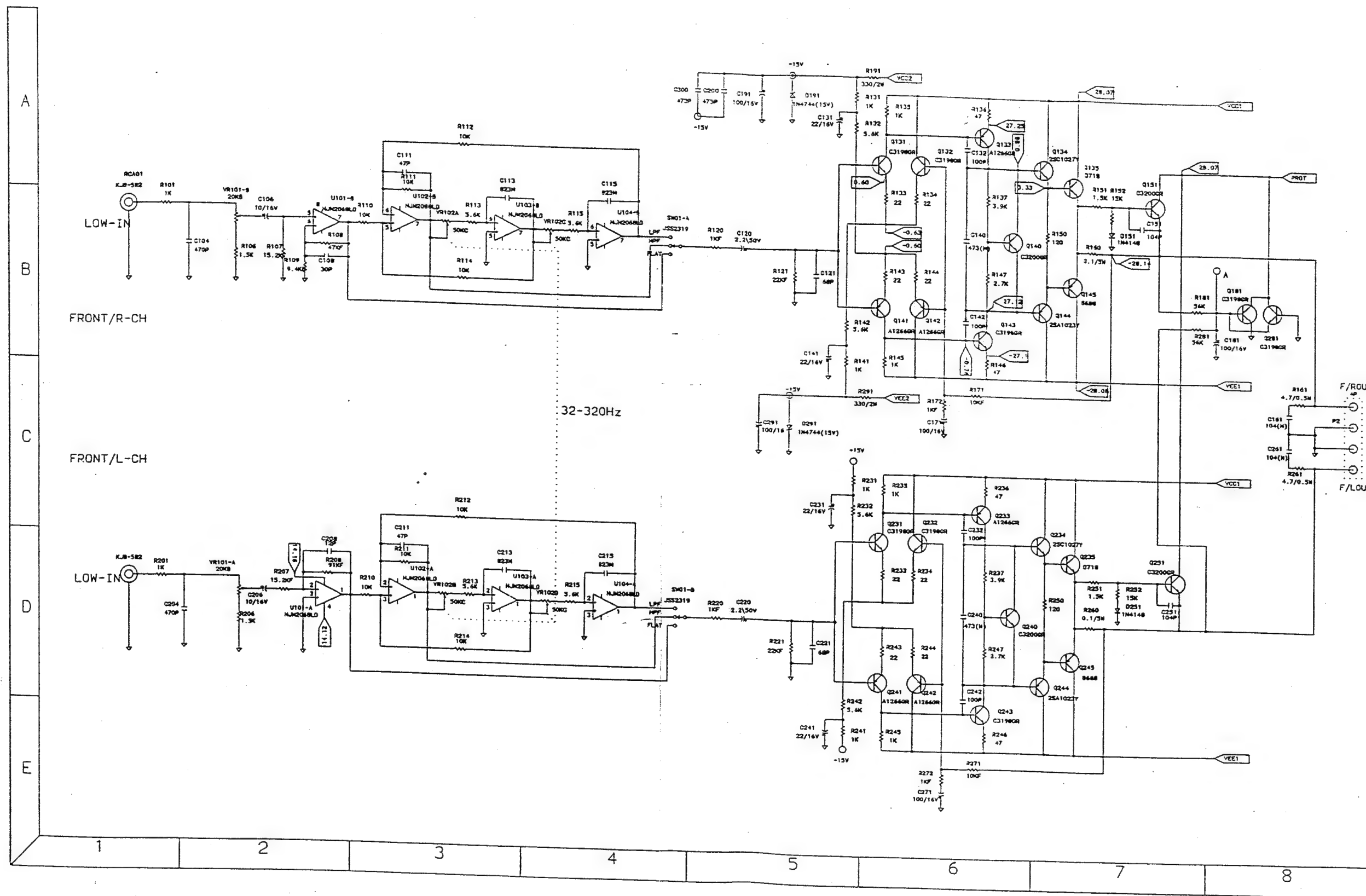


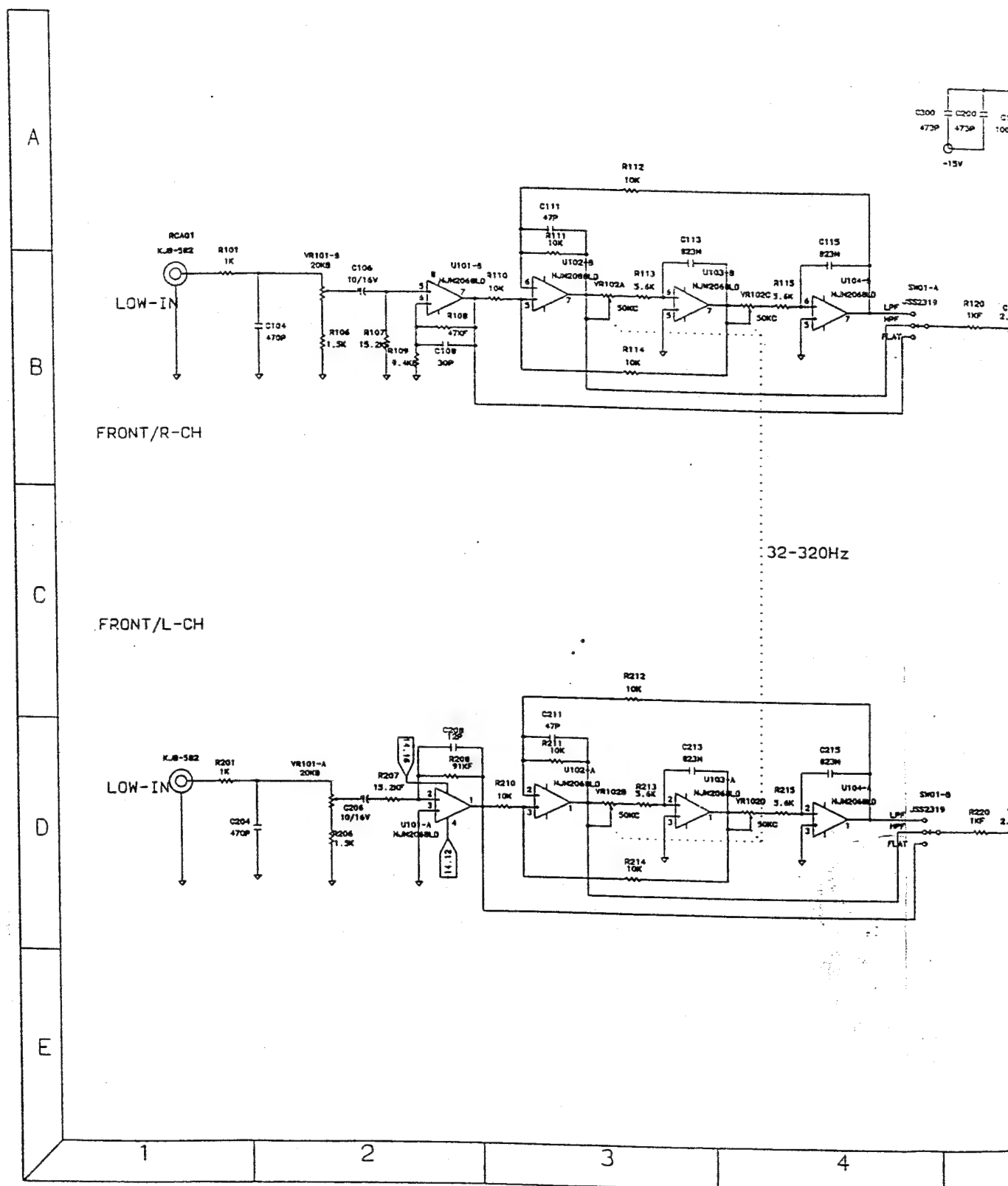
* ESC25M-02D *
D41,42

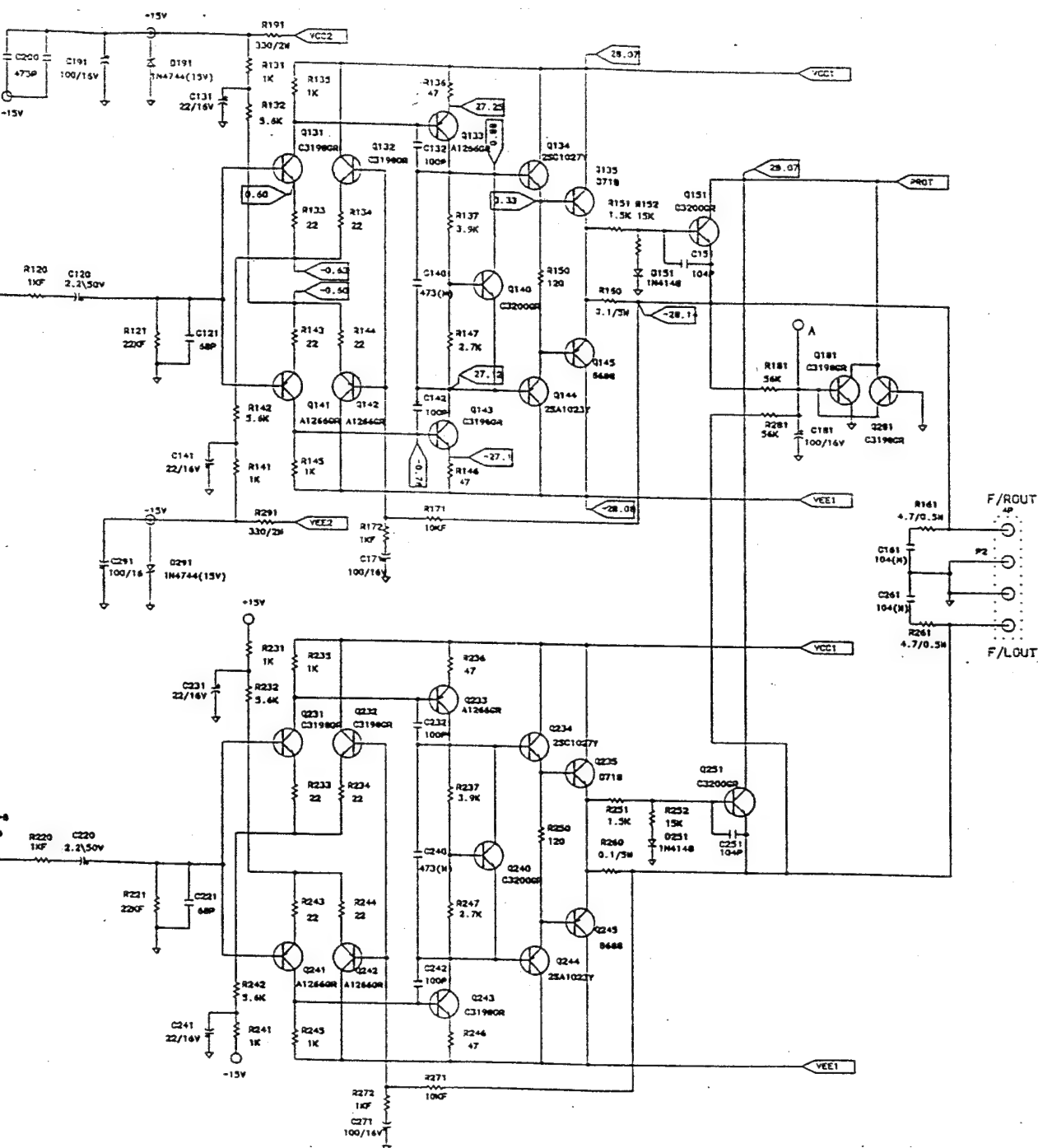


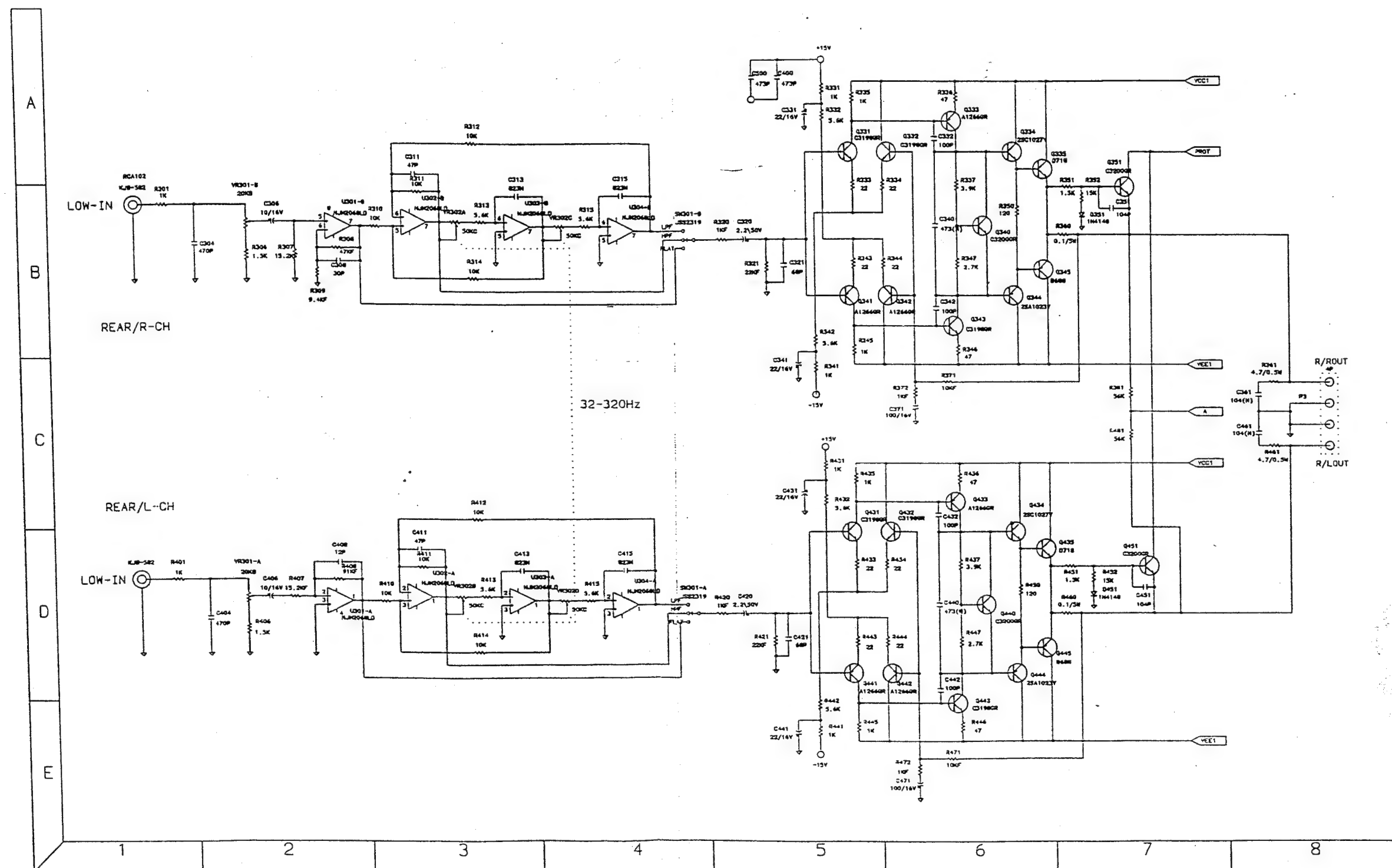
* KTC1027Y *
Q134,234,334,434

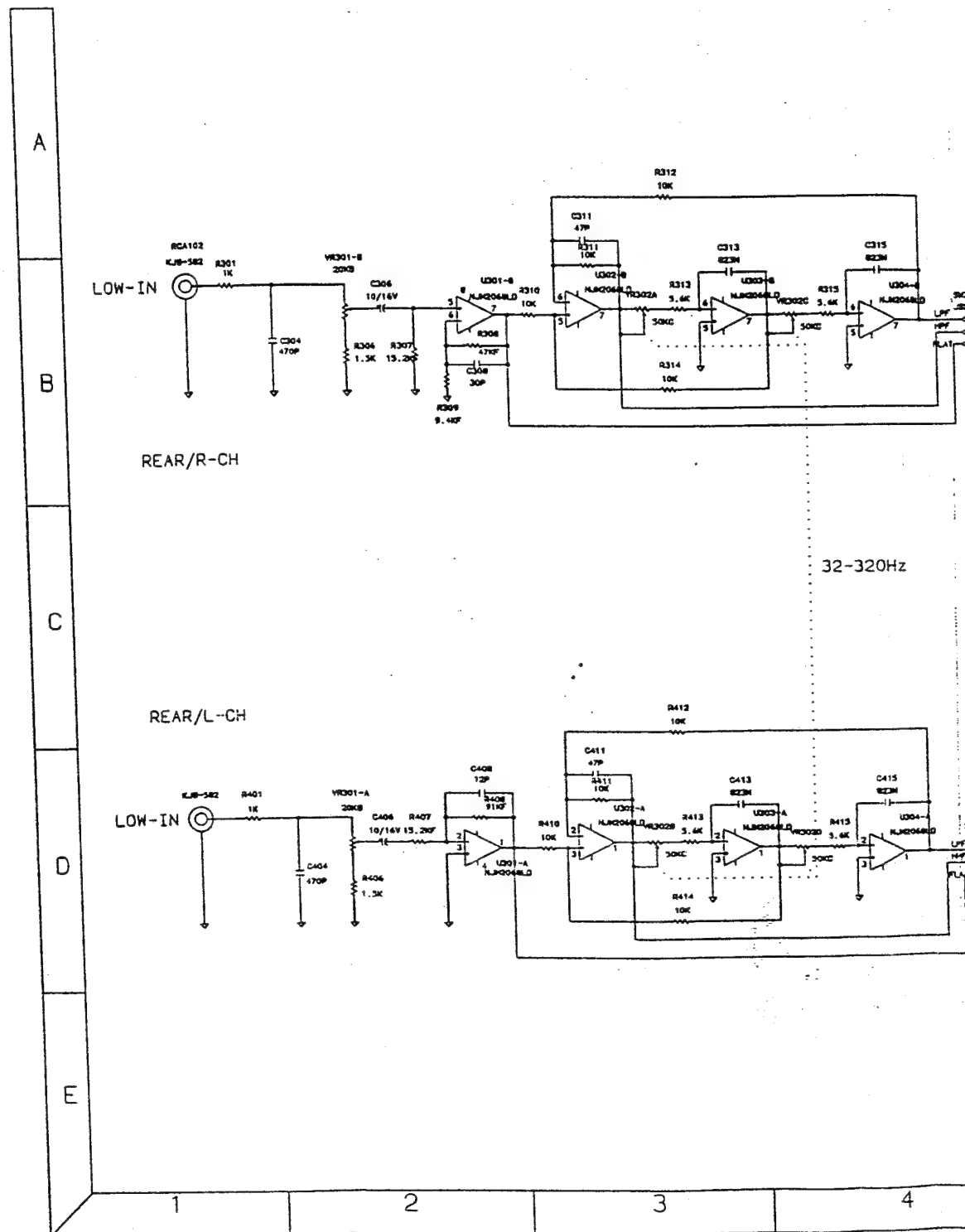
* KTA1023Y *
Q01,144,244,344,44

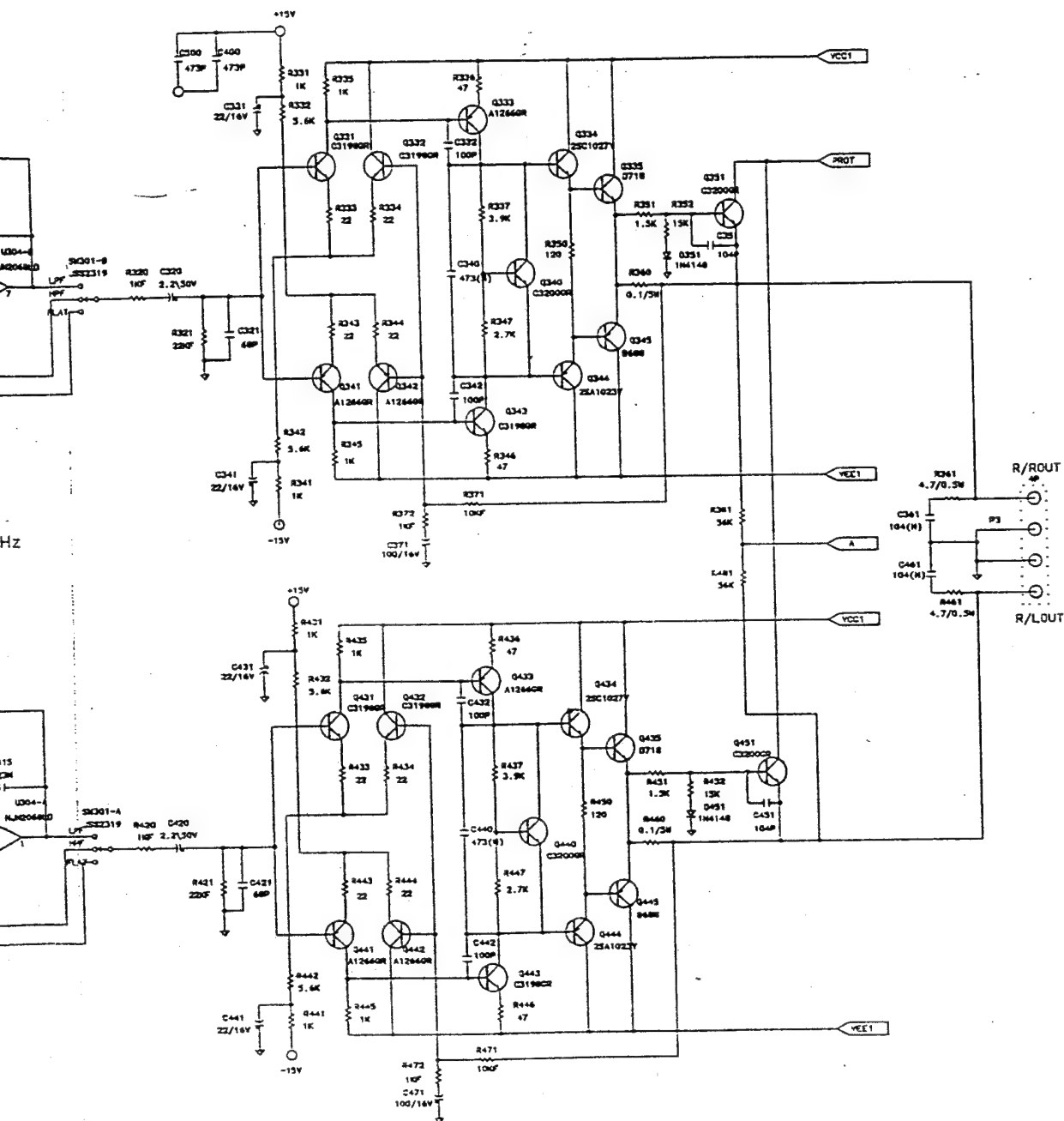




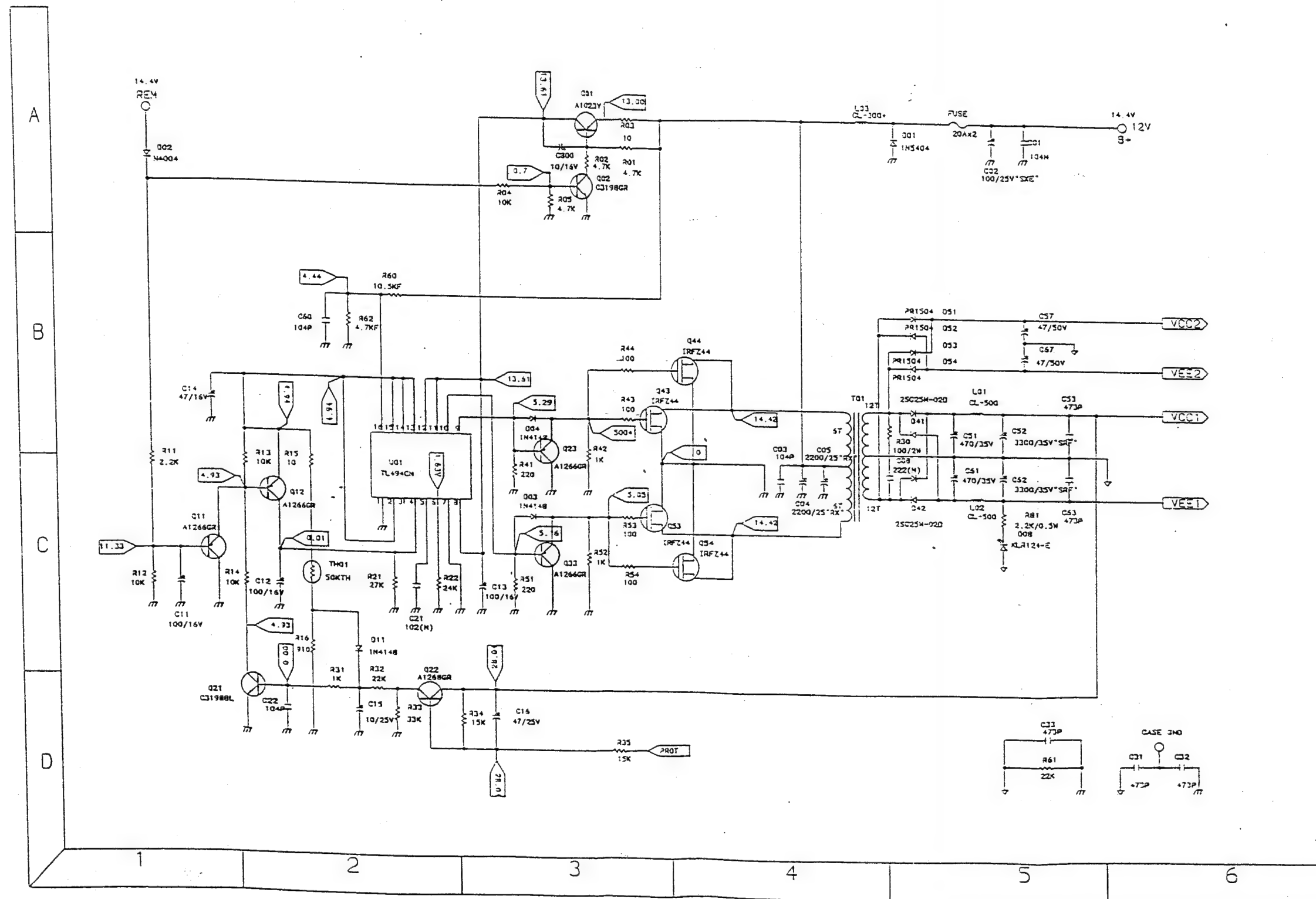


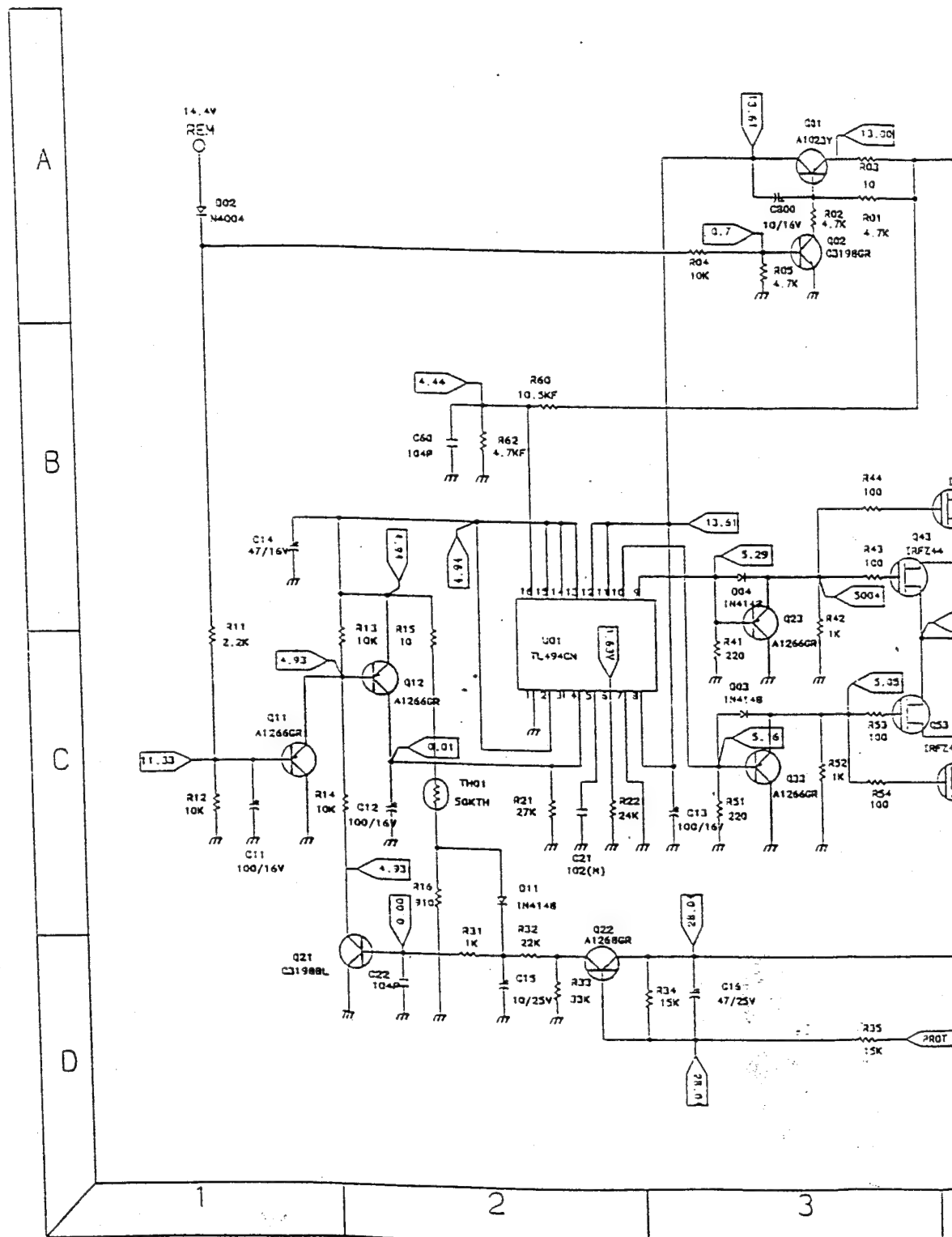




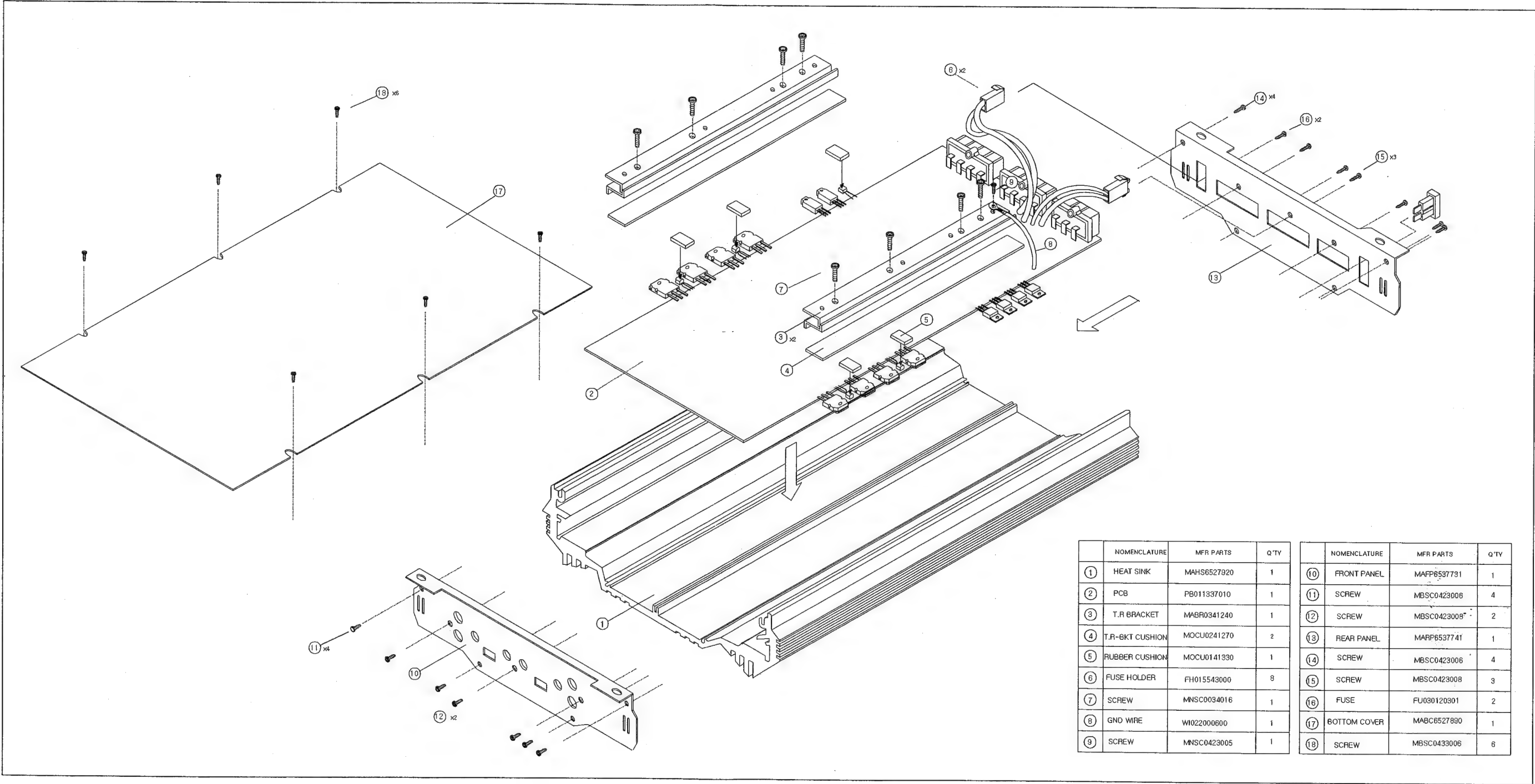


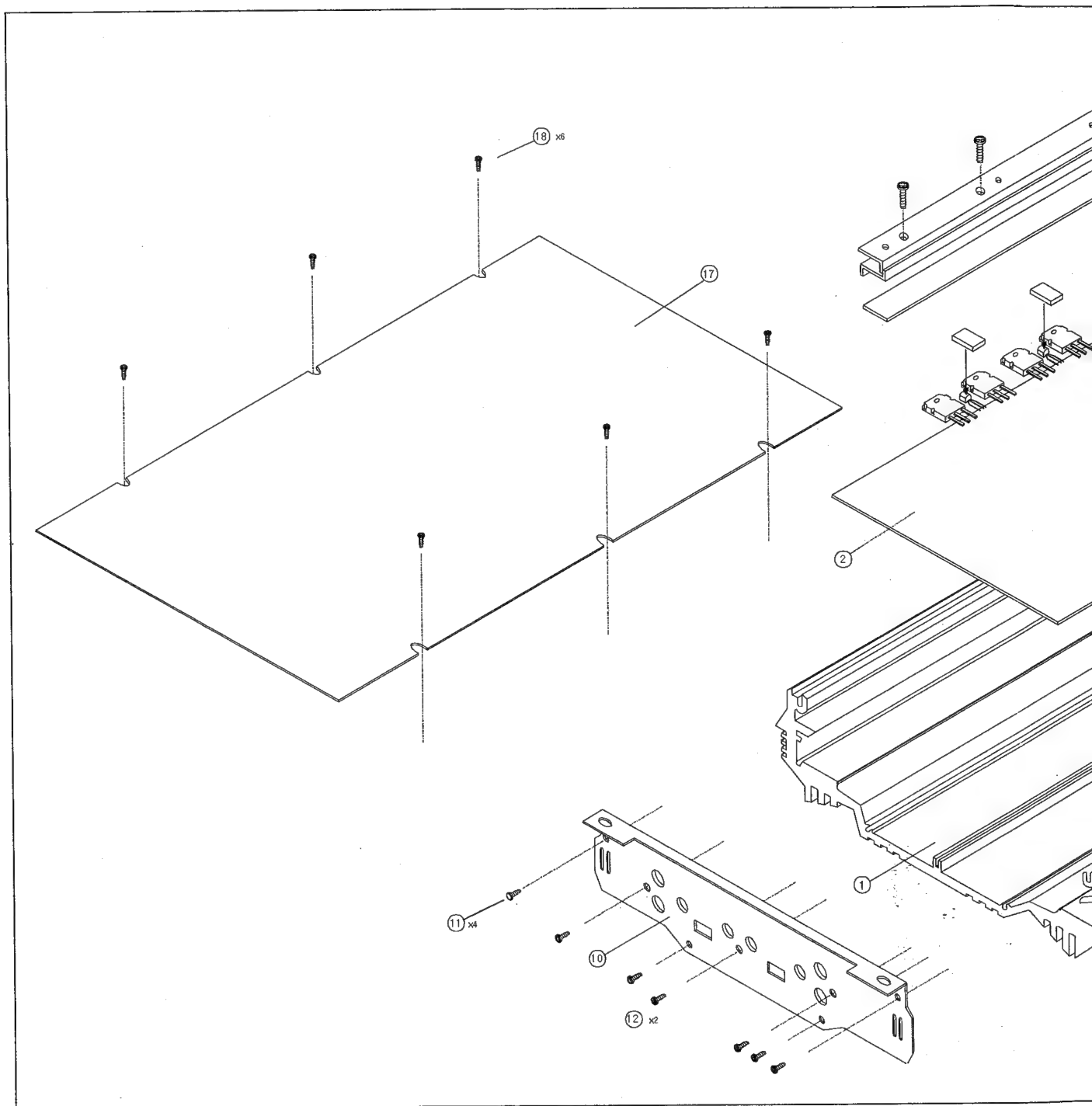
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|---|---|---|---|---|
| 4 | 5 | 6 | 7 | 8 |
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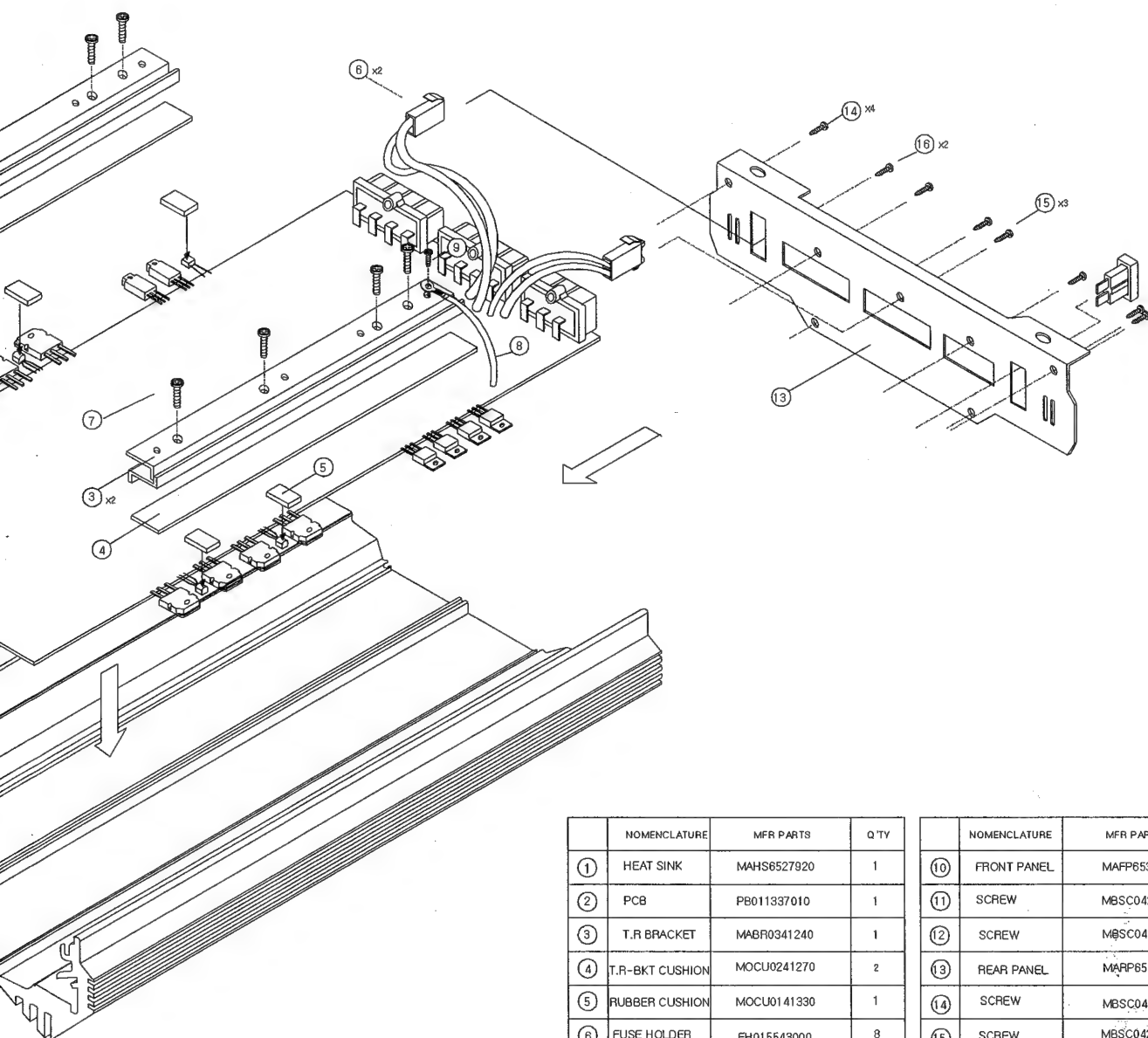






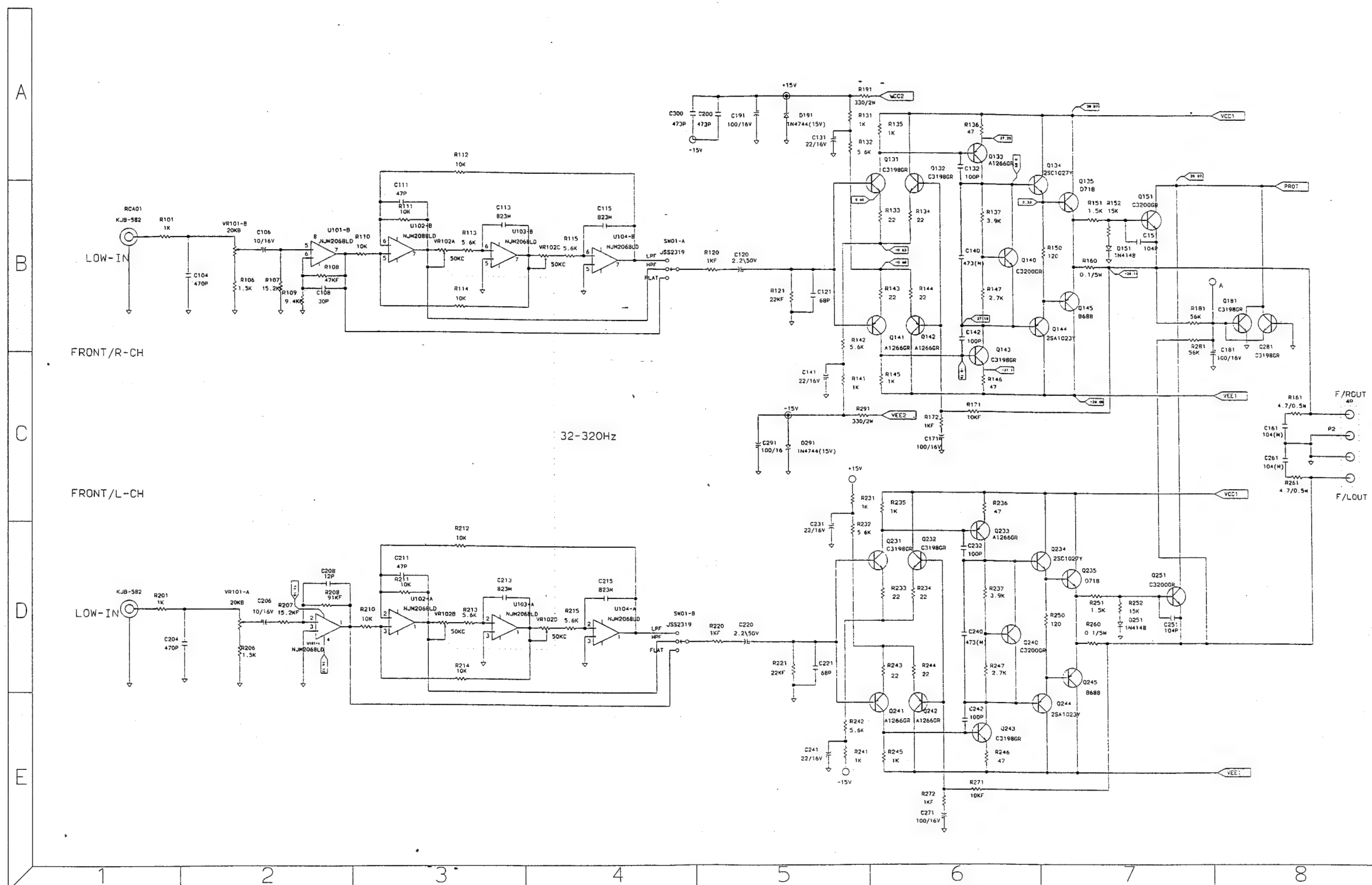


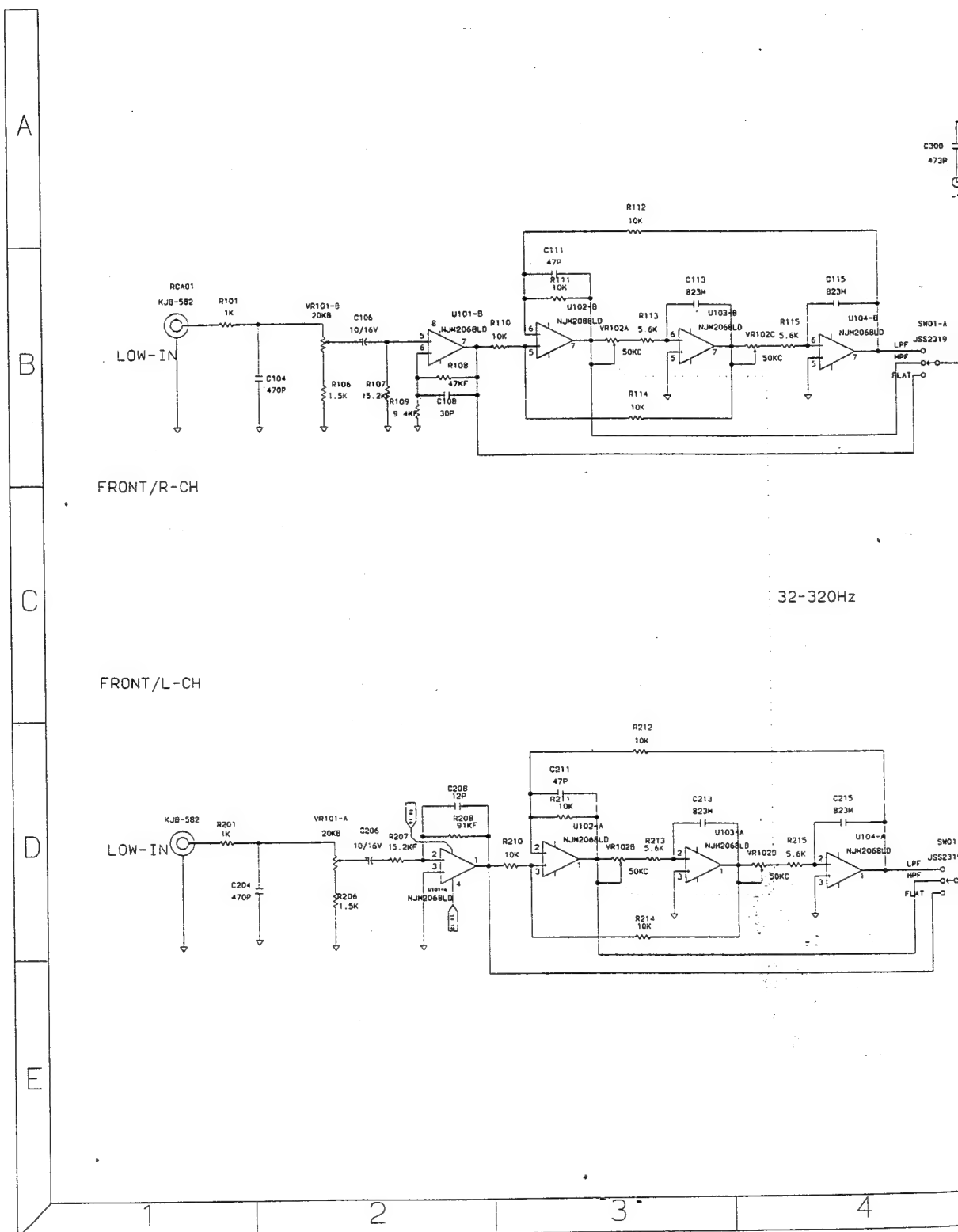


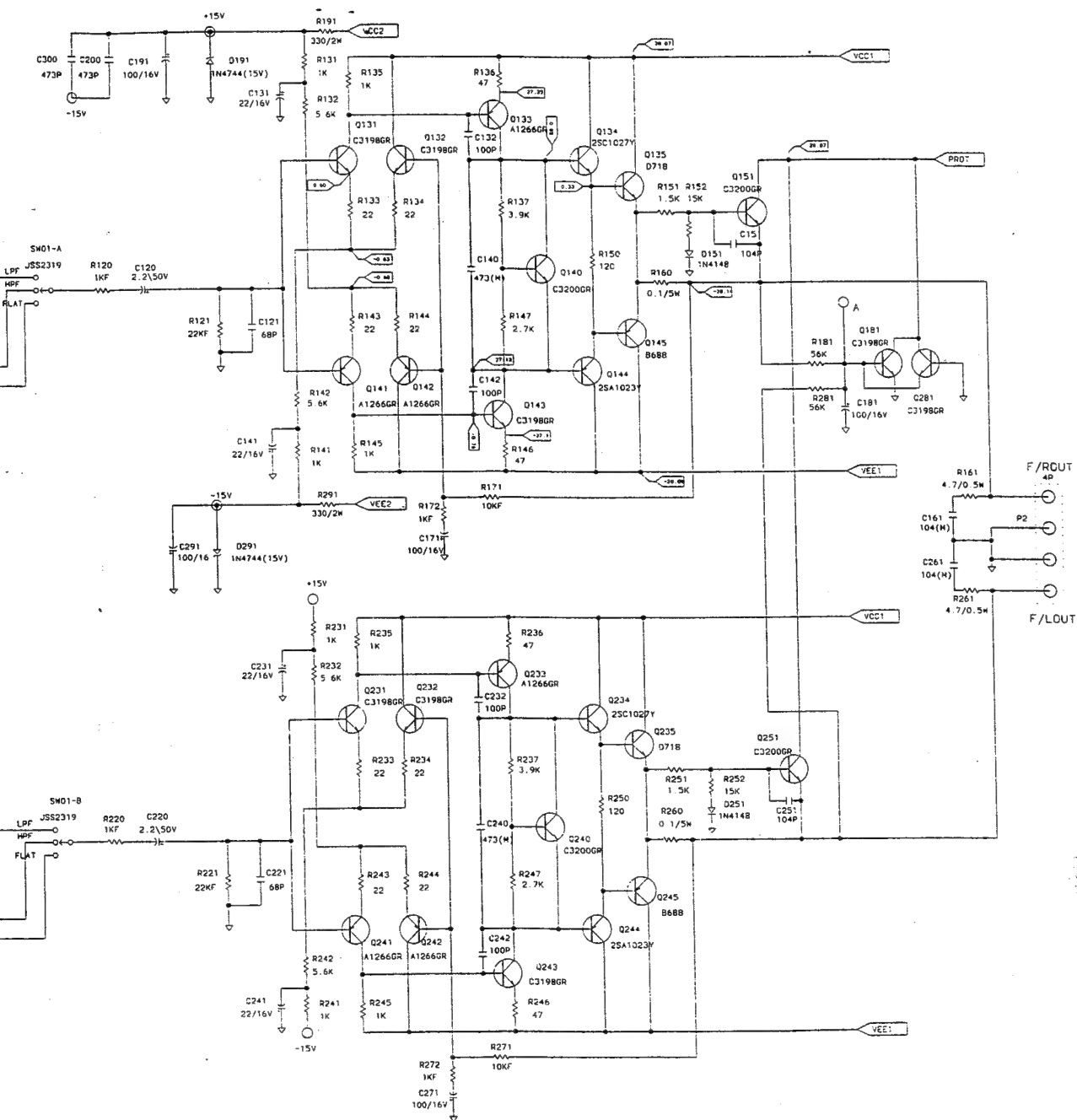


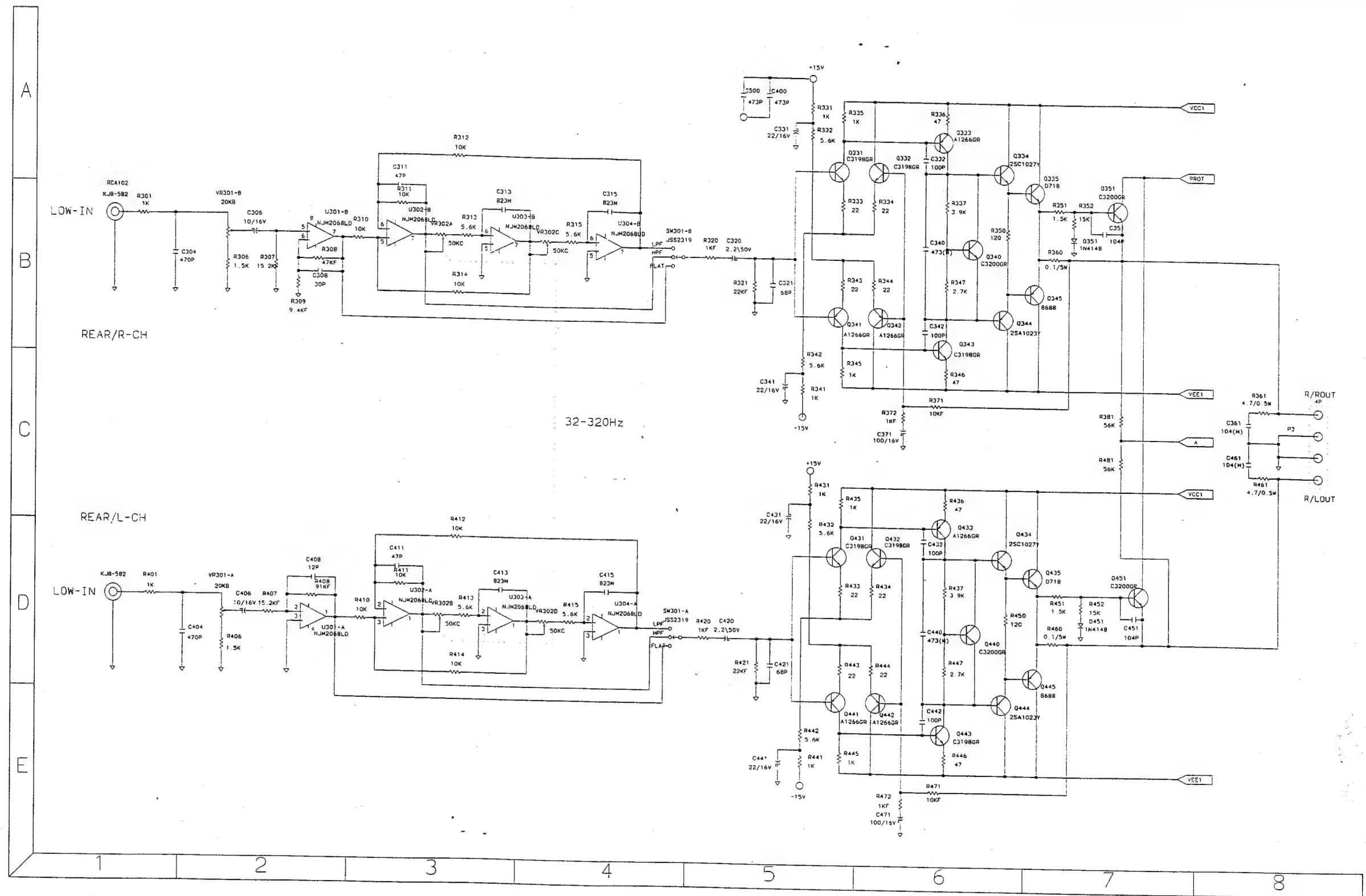
| | NOMENCLATURE | MFR PARTS | Q'TY |
|---|------------------|-------------|------|
| ① | HEAT SINK | MAHS6527920 | 1 |
| ② | PCB | PB011337010 | 1 |
| ③ | T.R. BRACKET | MABR0341240 | 1 |
| ④ | T.R.-BKT CUSHION | MOCU0241270 | 2 |
| ⑤ | RUBBER CUSHION | MOCU0141330 | 1 |
| ⑥ | FUSE HOLDER | FH015543000 | 8 |
| ⑦ | SCREW | MNSC0034018 | 1 |
| ⑧ | GND WIRE | WI022000600 | 1 |
| ⑨ | SCREW | MNSC0423005 | 1 |

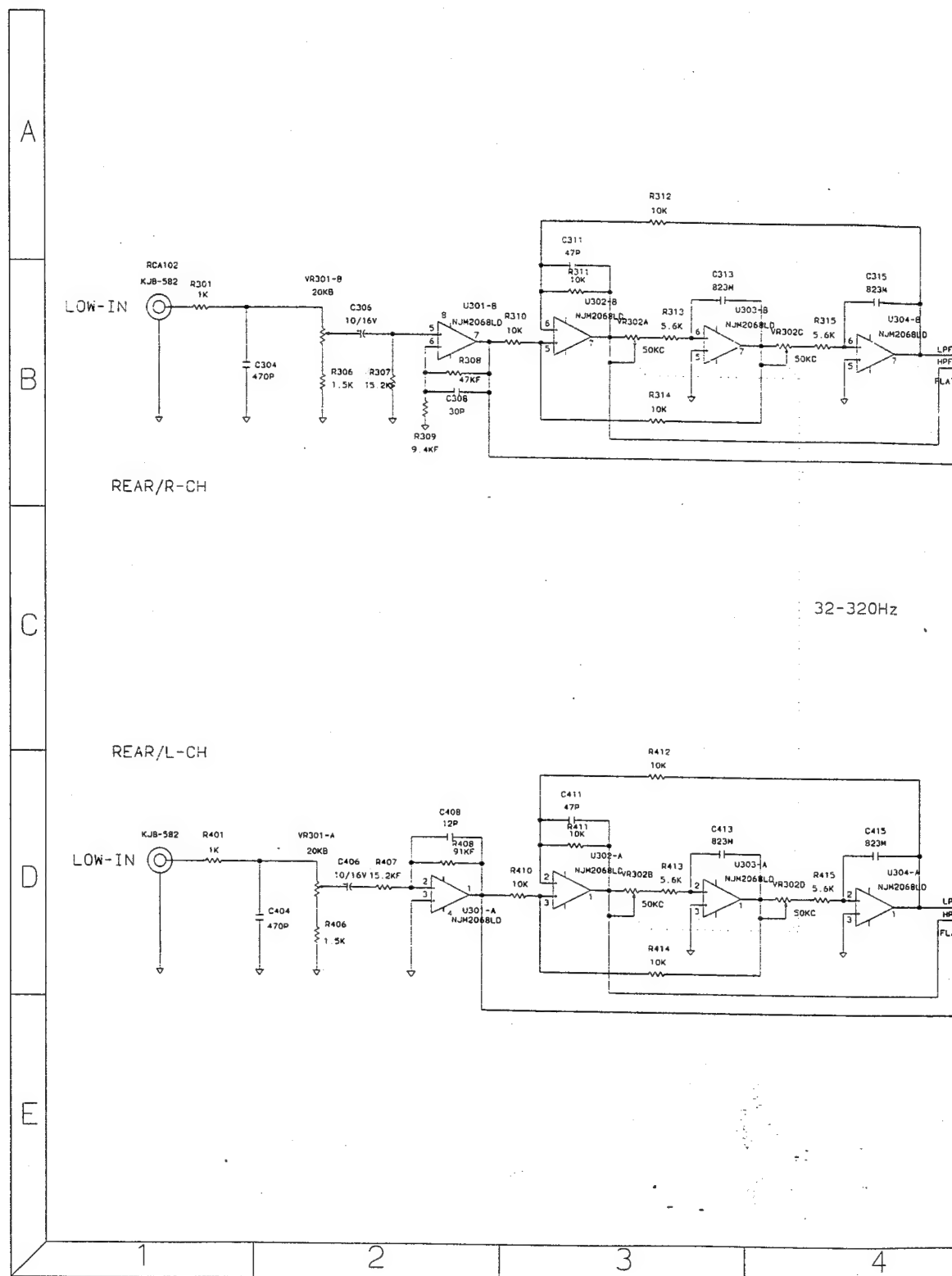
| | NOMENCLATURE | MFR PARTS | Q'TY |
|---|--------------|-------------|------|
| ⑩ | FRONT PANEL | MAFP6537731 | 1 |
| ⑪ | SCREW | MBSC0423006 | 4 |
| ⑫ | SCREW | MBSC0423008 | 2 |
| ⑬ | REAR PANEL | MAFP6537741 | 1 |
| ⑭ | SCREW | MBSC0423006 | 4 |
| ⑮ | SCREW | MBSC0423008 | 3 |
| ⑯ | FUSE | FU030120301 | 2 |
| ⑰ | BOTTOM COVER | MABC6527890 | 1 |
| ⑱ | SCREW | MBSC0433006 | 6 |

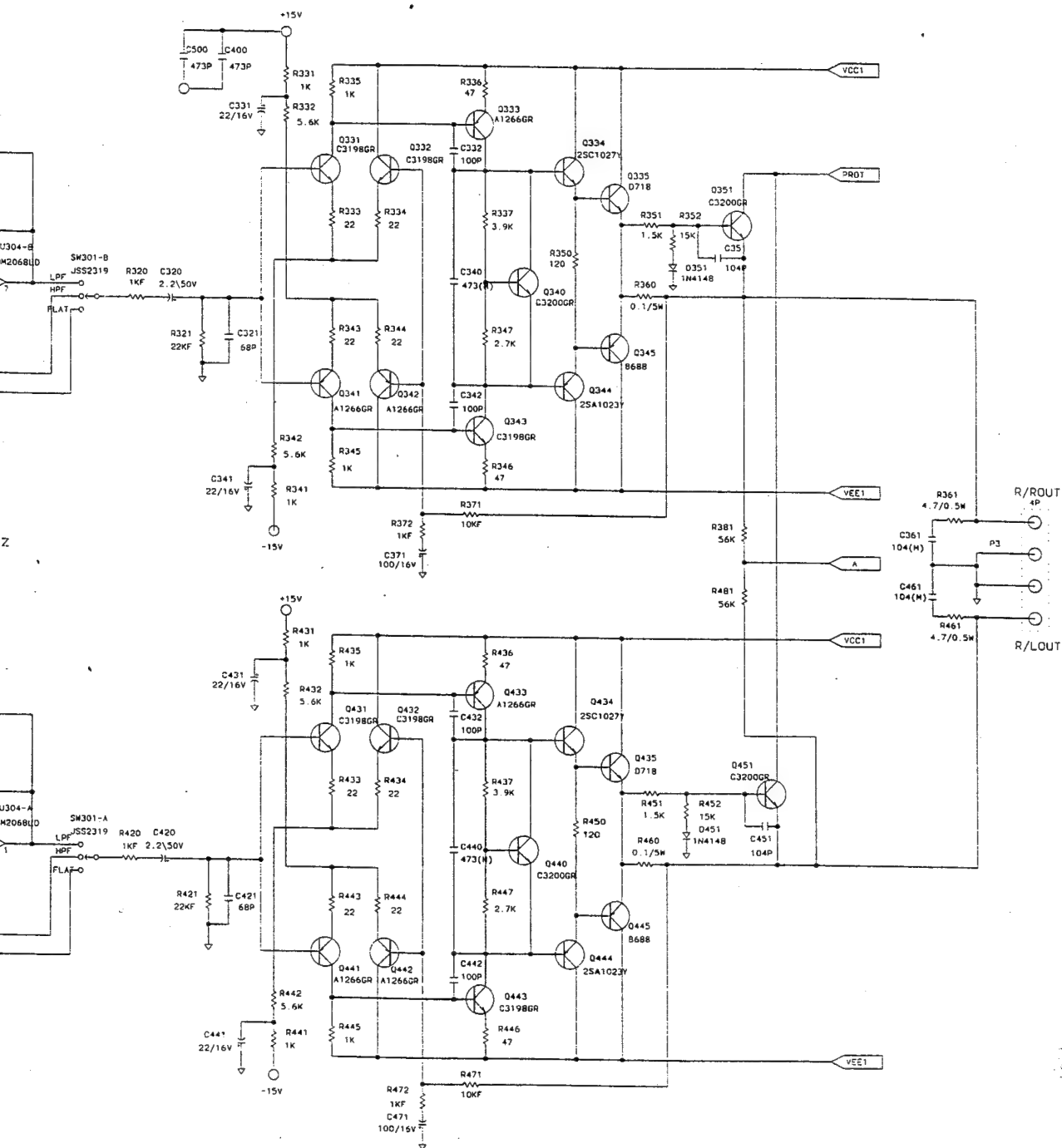










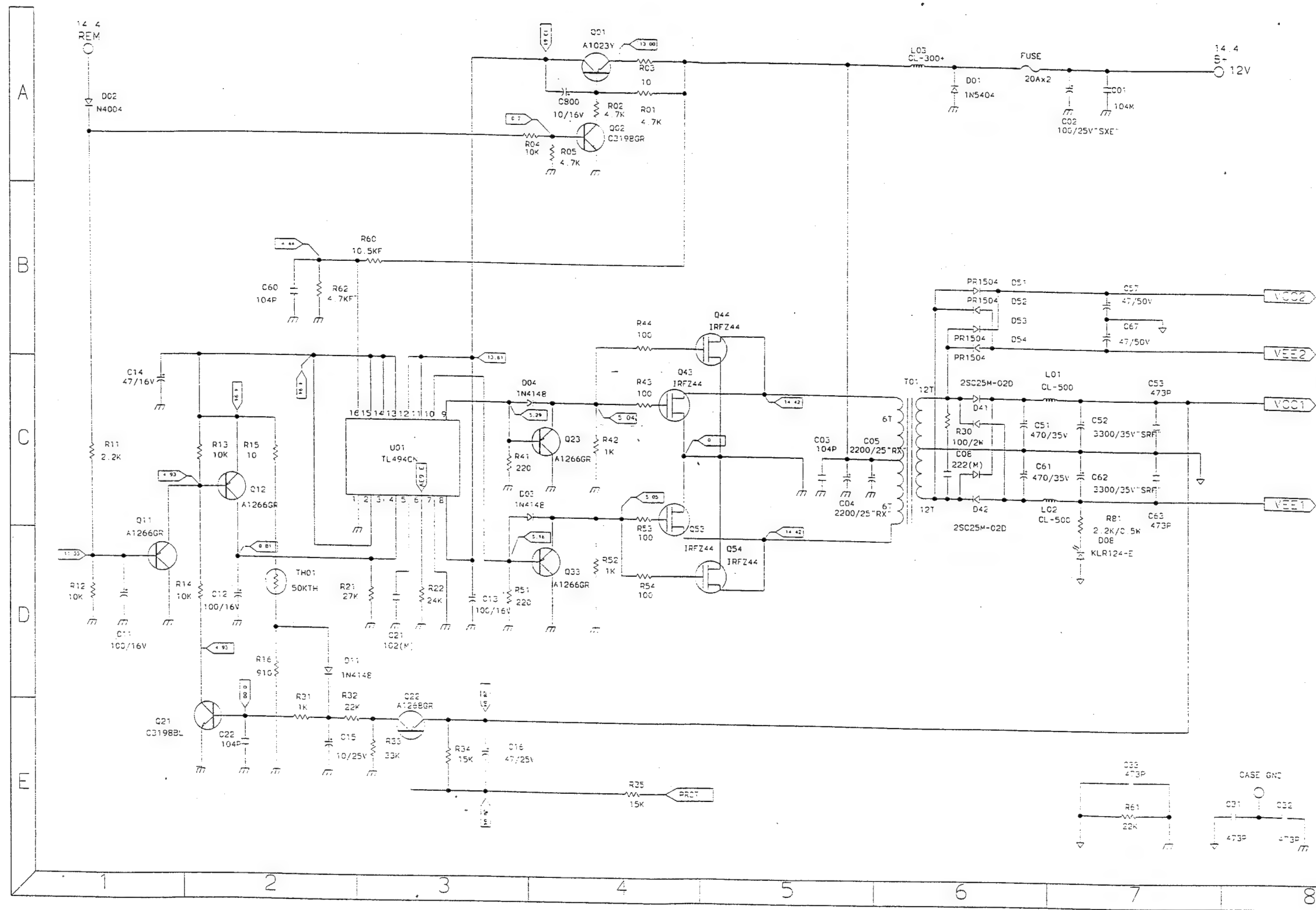


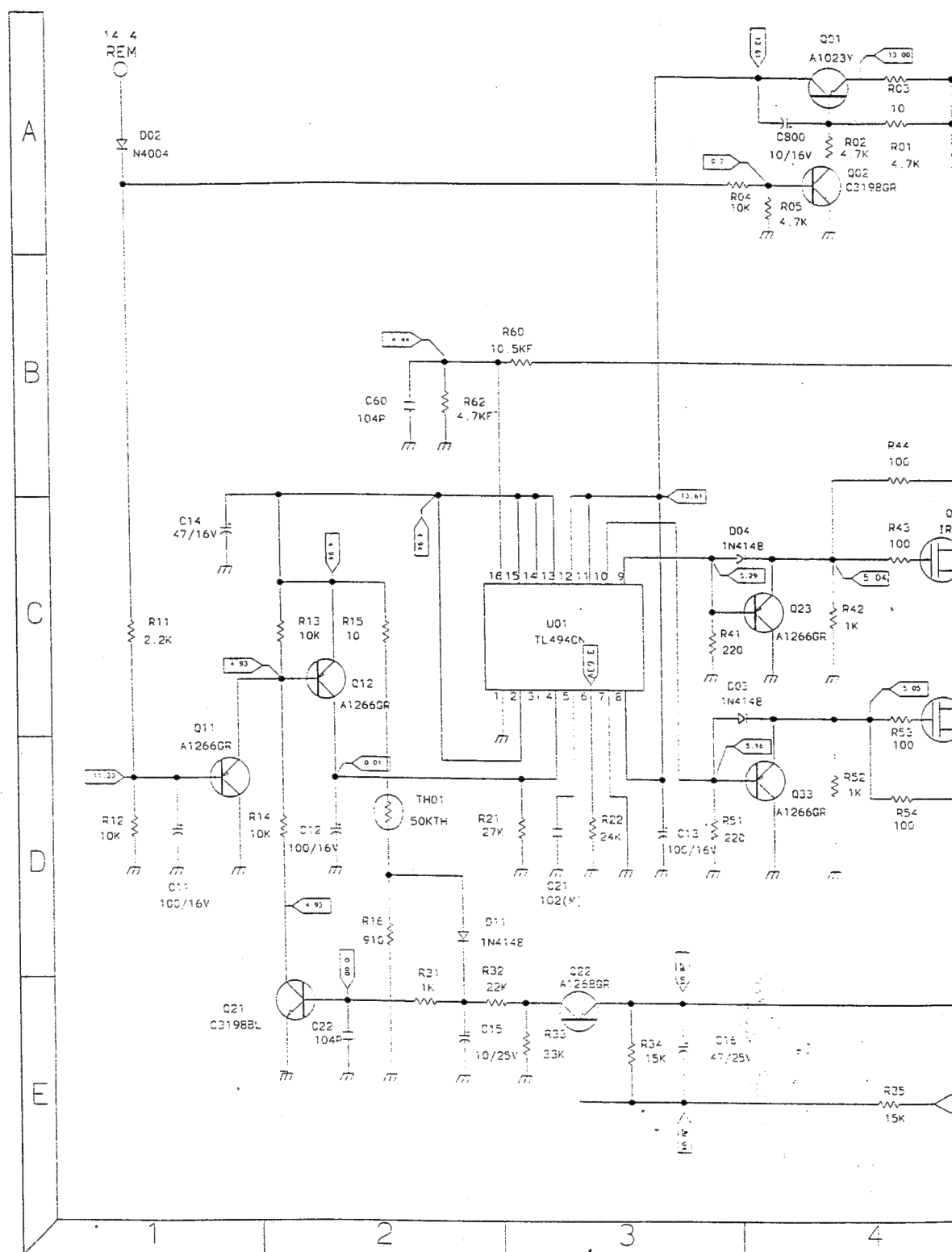
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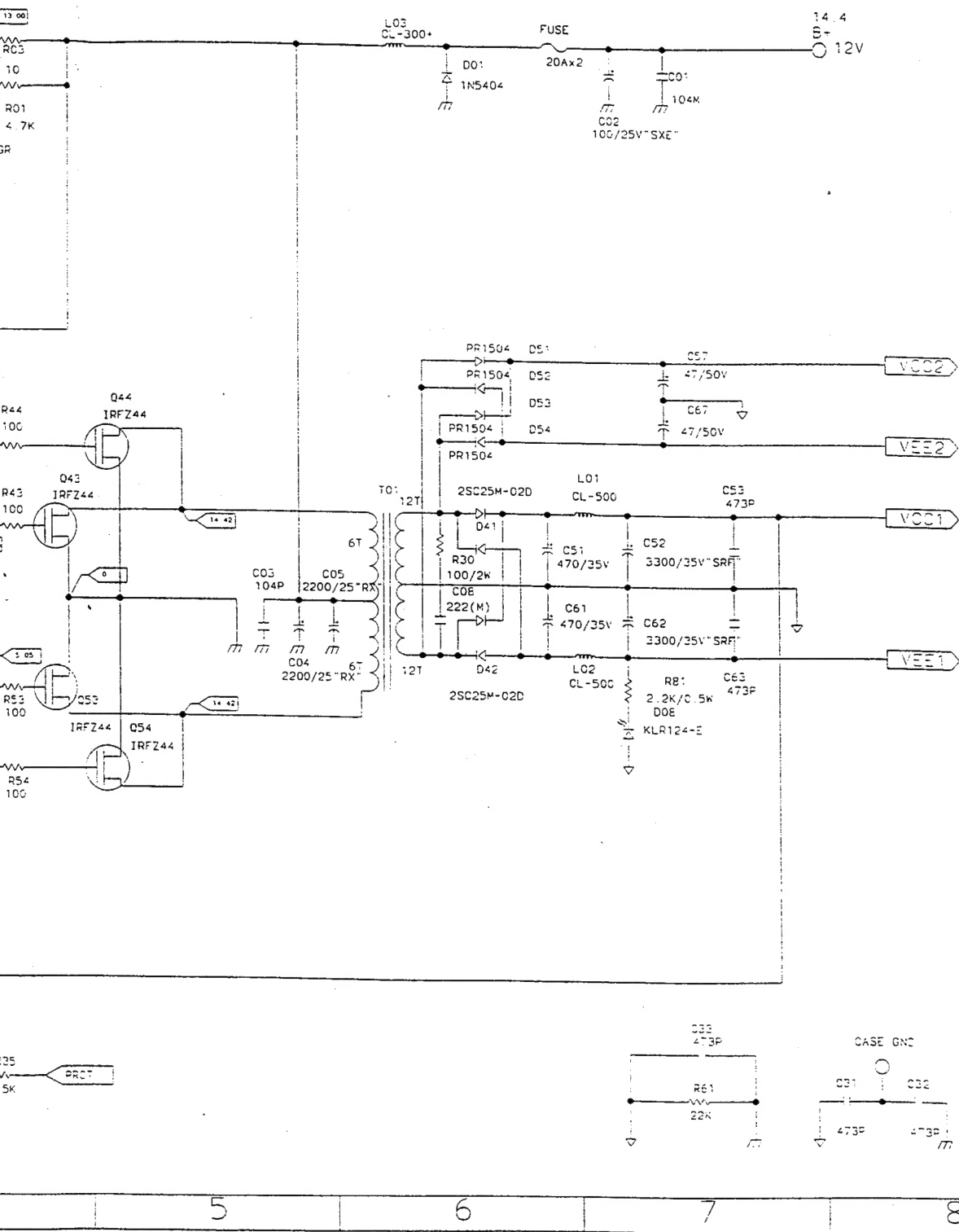
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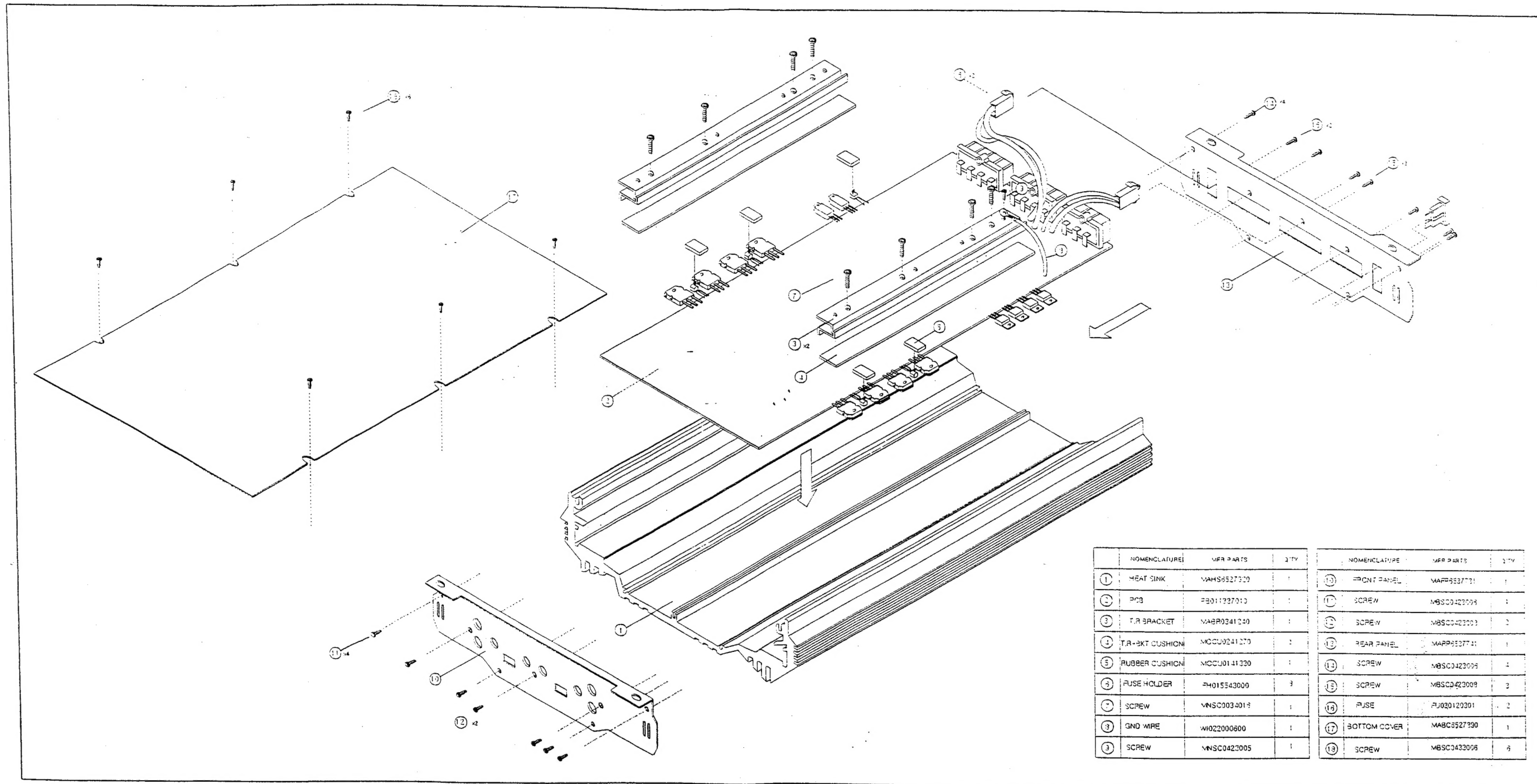
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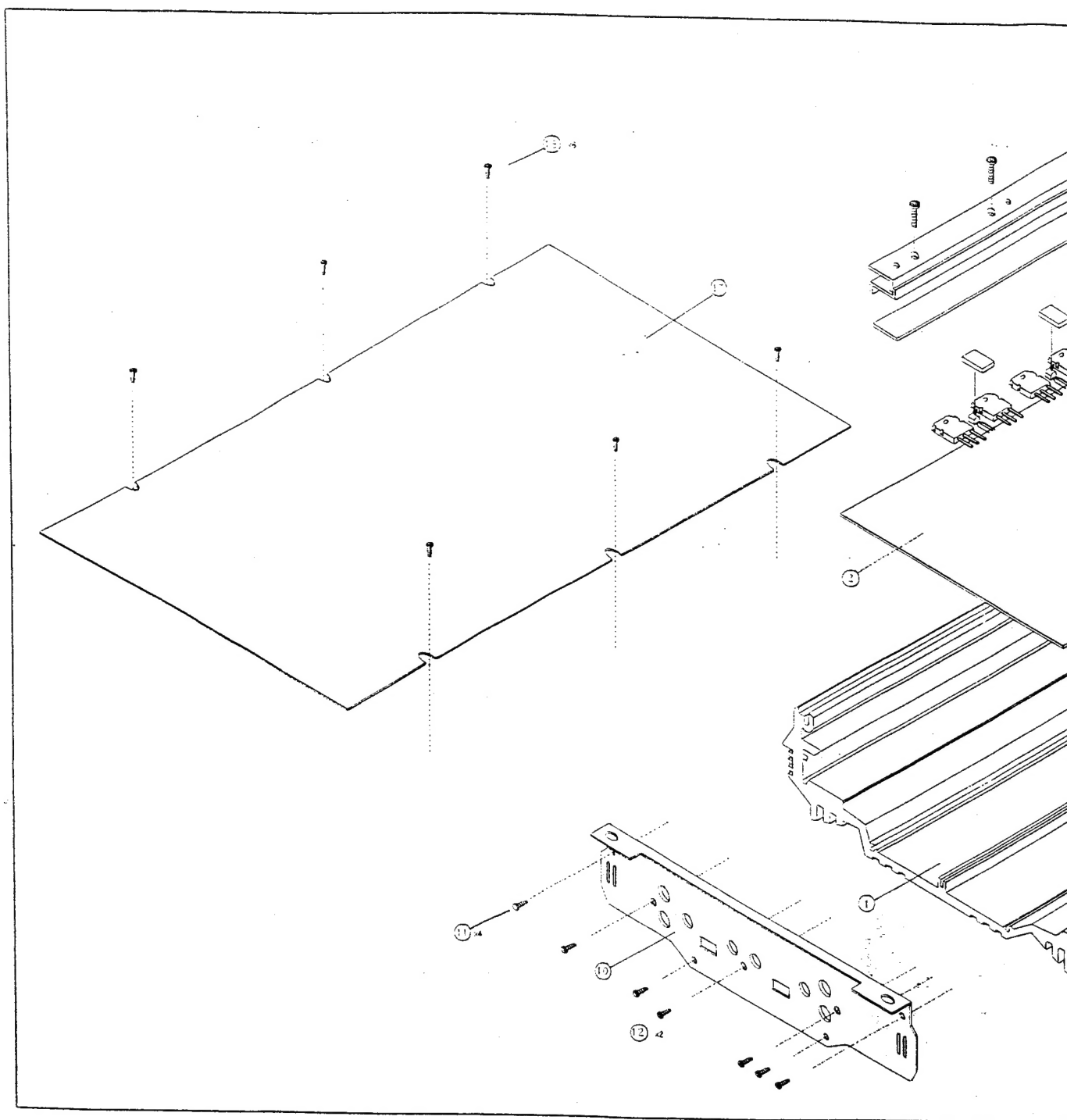
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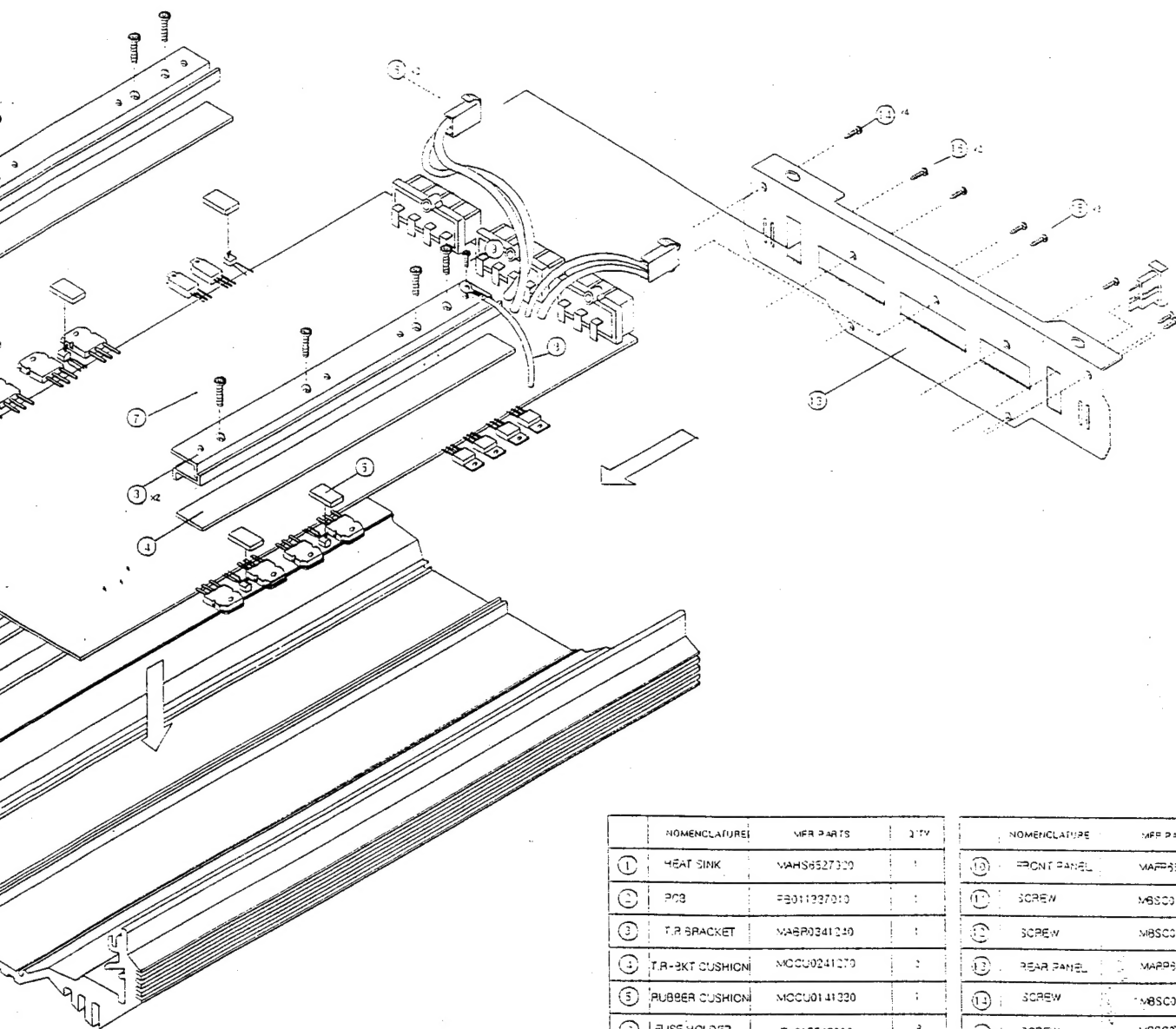












| | NOMENCLATURE | MFR PARTS | QTY | | NOMENCLATURE | MFR PARTS | QTY |
|---|-------------------|-------------|-----|---|--------------|-------------|-----|
| ① | HEAT SINK | MAHS6527300 | 1 | ⑩ | FRONT PANEL | MAFP6537701 | 1 |
| ② | PCB | FB011927010 | 1 | ⑪ | SCREW | MBSC0423008 | 1 |
| ③ | T.R. BRACKET | MAEP0341040 | 1 | ⑫ | SCREW | MBSC0423009 | 2 |
| ④ | T.R. EXT. CUSHION | MOCU0241070 | 2 | ⑬ | REAR PANEL | MAFP6537701 | 1 |
| ⑤ | RUBBER CUSHION | MOCU0141030 | 1 | ⑭ | SCREW | MBSC0423008 | 1 |
| ⑥ | FUSE HOLDER | FA015543000 | 3 | ⑮ | SCREW | MBSC0423009 | 3 |
| ⑦ | SCREW | VNSC0034015 | 1 | ⑯ | FUSE | FJ030120301 | 2 |
| ⑧ | GND WIRE | WI022000800 | 1 | ⑰ | BOTTOM COVER | MABC6527300 | 1 |
| ⑨ | SCREW | VNSC0423005 | 1 | ⑱ | SCREW | MBSC0433006 | 6 |